



# SEQUENCE LISTING

<110> Human Genome Sciences, Inc.

<120> Albumin Fusion Proteins

<130> PF546

<140> 09/833,245

<141> 2001-04-12

<160> 2279

<170> PatentIn Ver. 2.1

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<211> 23

<212> DNA

<213> Artificial Sequence

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<221> primer\_bind

<223> primer useful to clone human growth hormone cDNA

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<223> primer useful to clone human growth hormone cDNA

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<223> synthetic oligonucleotide used to join DNA fragments with non-cohesive ends.

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<223> invertase leader sequence

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<400> 7

Met Leu Leu Gln Ala Phe Leu Phe Leu Leu Ala Gly Phe Ala Ala Lys  
1 5 10 15

Ile Ser Ala Asp Ala His Lys Ser  
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<400> 8  
gagatgcaca cctgagtgag g 21

<210> 9  
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<400> 10  
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<211> 31

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 fragments with non-cohesive ends.

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 1 5 10 15  
 gaa aat ttc aaa gcc ttg gtg ttg att gcc ttt gct cag tat ctt cag 96  
 Glu Asn Phe Lys Ala Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln  
 20 25 30  
 cag tgt cca ttt gaa gat cat gta aaa tta gtg aat gaa gta act gaa 144  
 Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu  
 35 40 45  
 ttt gca aaa aca tgt gtt gct gat gag tca gct gaa aat tgt gac aaa 192  
 Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys  
 50 55 60  
 tca ctt cat acc ctt ttt gga gac aaa tta tgc aca gtt gca act ctt 240  
 Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu  
 65 70 75 80  
 cgt gaa acc tat ggt gaa atg gct gac tgc tgt gca aaa caa gaa cct 288  
 Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro  
 85 90 95

gag	aga	aat	gaa	tgc	ttc	ttg	caa	cac	aaa	gat	gac	aac	cca	aac	ctc	336
Glu	Arg	Asn	Glu	Cys	Phe	Leu	Gln	His	Lys	Asp	Asp	Asn	Pro	Asn	Leu	
			100					105					110			
ccc	cga	ttg	gtg	aga	cca	gag	gtt	gat	gtg	atg	tgc	act	gct	ttt	cat	384
Pro	Arg	Leu	Val	Arg	Pro	Glu	Val	Asp	Val	Met	Cys	Thr	Ala	Phe	His	
		115					120					125				
gac	aat	gaa	gag	aca	ttt	ttg	aaa	aaa	tac	tta	tat	gaa	att	gcc	aga	432
Asp	Asn	Glu	Glu	Thr	Phe	Leu	Lys	Lys	Tyr	Leu	Tyr	Glu	Ile	Ala	Arg	
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aga	cat	cct	tac	ttt	tat	gcc	ccg	gaa	ctc	ctt	ttc	ttt	gct	aaa	agg	480
Arg	His	Pro	Tyr	Phe	Tyr	Ala	Pro	Glu	Leu	Leu	Phe	Phe	Ala	Lys	Arg	
145					150					155					160	
tat	aaa	gct	gct	ttt	aca	gaa	tgt	tgc	caa	gct	gct	gat	aaa	gct	gcc	528
Tyr	Lys	Ala	Ala	Phe	Thr	Glu	Cys	Cys	Gln	Ala	Ala	Asp	Lys	Ala	Ala	
				165					170					175		
tgc	ctg	ttg	cca	aag	ctc	gat	gaa	ctt	cgg	gat	gaa	ggg	aag	gct	tcg	576
Cys	Leu	Leu	Pro	Lys	Leu	Asp	Glu	Leu	Arg	Asp	Glu	Gly	Lys	Ala	Ser	
			180					185					190			
tct	gcc	aaa	cag	aga	ctc	aaa	tgt	gcc	agt	ctc	caa	aaa	ttt	gga	gaa	624
Ser	Ala	Lys	Gln	Arg	Leu	Lys	Cys	Ala	Ser	Leu	Gln	Lys	Phe	Gly	Glu	
		195					200					205				
aga	gct	ttc	aaa	gca	tgg	gca	gtg	gct	cgc	ctg	agc	cag	aga	ttt	ccc	672
Arg	Ala	Phe	Lys	Ala	Trp	Ala	Val	Ala	Arg	Leu	Ser	Gln	Arg	Phe	Pro	
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aaa	gct	gag	ttt	gca	gaa	gtt	tcc	aag	tta	gtg	aca	gat	ctt	acc	aaa	720
Lys	Ala	Glu	Phe	Ala	Glu	Val	Ser	Lys	Leu	Val	Thr	Asp	Leu	Thr	Lys	
225					230					235					240	
gtc	cac	acg	gaa	tgc	tgc	cat	gga	gat	ctg	ctt	gaa	tgt	gct	gat	gac	768
Val	His	Thr	Glu	Cys	Cys	His	Gly	Asp	Leu	Leu	Glu	Cys	Ala	Asp	Asp	
				245				250					255			
agg	gcg	gac	ctt	gcc	aag	tat	atc	tgt	gaa	aat	cag	gat	tcg	atc	tcc	816
Arg	Ala	Asp	Leu	Ala	Lys	Tyr	Ile	Cys	Glu	Asn	Gln	Asp	Ser	Ile	Ser	
			260					265					270			
agt	aaa	ctg	aag	gaa	tgc	tgt	gaa	aaa	cct	ctg	ttg	gaa	aaa	tcc	cac	864
Ser	Lys	Leu	Lys	Glu	Cys	Cys	Glu	Lys	Pro	Leu	Leu	Glu	Lys	Ser	His	
		275					280					285				
tgc	att	gcc	gaa	gtg	gaa	aat	gat	gag	atg	cct	gct	gac	ttg	cct	tca	912
Cys	Ile	Ala	Glu	Val	Glu	Asn	Asp	Glu	Met	Pro	Ala	Asp	Leu	Pro	Ser	
	290					295					300					
tta	gct	gct	gat	ttt	gtt	gaa	agt	aag	gat	gtt	tgc	aaa	aac	tat	gct	960
Leu	Ala	Ala	Asp	Phe	Val	Glu	Ser	Lys	Asp	Val	Cys	Lys	Asn	Tyr	Ala	
305					310					315					320	

gag gca aag gat gtc ttc ctg ggc atg ttt ttg tat gaa tat gca aga	1008
Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg	
325 330 335	
agg cat cct gat tac tct gtc gtg ctg ctg ctg aga ctt gcc aag aca	1056
Arg His Pro Asp Tyr Ser Val Val Leu Leu Leu Arg Leu Ala Lys Thr	
340 345 350	
tat gaa acc act cta gag aag tgc tgt gcc gct gca gat cct cat gaa	1104
Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu	
355 360 365	
tgc tat gcc aaa gtg ttc gat gaa ttt aaa cct ctt gtg gaa gag cct	1152
Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro	
370 375 380	
cag aat tta atc aaa caa aac tgt gag ctt ttt gag cag ctt gga gag	1200
Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu	
385 390 395 400	
tac aaa ttc cag aat gcg cta tta gtt cgt tac acc aag aaa gta ccc	1248
Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro	
405 410 415	
caa gtg tca act cca act ctt gta gag gtc tca aga aac cta gga aaa	1296
Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys	
420 425 430	
gtg ggc agc aaa tgt tgt aaa cat cct gaa gca aaa aga atg ccc tgt	1344
Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys	
435 440 445	
gca gaa gac tat cta tcc gtg gtc ctg aac cag tta tgt gtg ttg cat	1392
Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His	
450 455 460	
gag aaa acg cca gta agt gac aga gtc aca aaa tgc tgc aca gag tcc	1440
Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser	
465 470 475 480	
ttg gtg aac agg cga cca tgc ttt tca gct ctg gaa gtc gat gaa aca	1488
Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr	
485 490 495	
tac gtt ccc aaa gag ttt aat gct gaa aca ttc acc ttc cat gca gat	1536
Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp	
500 505 510	
ata tgc aca ctt tct gag aag gag aga caa atc aag aaa caa act gca	1584
Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala	
515 520 525	
ctt gtt gag ctt gtg aaa cac aag ccc aag gca aca aaa gag caa ctg	1632
Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu	
530 535 540	
aaa gct gtt atg gat gat ttc gca gct ttt gta gag aag tgc tgc aag	1680

Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys  
545 550 555 560

gct gac gat aag gag acc tgc ttt gcc gag gag ggt aaa aaa ctt gtt 1728  
Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val  
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gct gca agt caa gct gcc tta ggc tta taacatctac atttaaaagc atctcag 1782  
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<210> 18  
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Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu  
35 40 45  
Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys  
50 55 60  
Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu  
65 70 75 80  
Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro  
85 90 95  
Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu  
100 105 110  
Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His  
115 120 125  
Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg  
130 135 140  
Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg  
145 150 155 160  
Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala  
165 170 175  
Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser  
180 185 190  
Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu  
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Arg	Ala	Phe	Lys	Ala	Trp	Ala	Val	Ala	Arg	Leu	Ser	Gln	Arg	Phe	Pro
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225					230					235					240
Val	His	Thr	Glu	Cys	Cys	His	Gly	Asp	Leu	Leu	Glu	Cys	Ala	Asp	Asp
				245					250					255	
Arg	Ala	Asp	Leu	Ala	Lys	Tyr	Ile	Cys	Glu	Asn	Gln	Asp	Ser	Ile	Ser
			260					265					270		
Ser	Lys	Leu	Lys	Glu	Cys	Cys	Glu	Lys	Pro	Leu	Leu	Glu	Lys	Ser	His
		275					280					285			
Cys	Ile	Ala	Glu	Val	Glu	Asn	Asp	Glu	Met	Pro	Ala	Asp	Leu	Pro	Ser
	290					295					300				
Leu	Ala	Ala	Asp	Phe	Val	Glu	Ser	Lys	Asp	Val	Cys	Lys	Asn	Tyr	Ala
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Glu	Ala	Lys	Asp	Val	Phe	Leu	Gly	Met	Phe	Leu	Tyr	Glu	Tyr	Ala	Arg
				325					330					335	
Arg	His	Pro	Asp	Tyr	Ser	Val	Val	Leu	Leu	Leu	Arg	Leu	Ala	Lys	Thr
			340					345					350		
Tyr	Glu	Thr	Thr	Leu	Glu	Lys	Cys	Cys	Ala	Ala	Ala	Asp	Pro	His	Glu
		355					360					365			
Cys	Tyr	Ala	Lys	Val	Phe	Asp	Glu	Phe	Lys	Pro	Leu	Val	Glu	Glu	Pro
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Gln	Asn	Leu	Ile	Lys	Gln	Asn	Cys	Glu	Leu	Phe	Glu	Gln	Leu	Gly	Glu
385					390					395					400
Tyr	Lys	Phe	Gln	Asn	Ala	Leu	Leu	Val	Arg	Tyr	Thr	Lys	Lys	Val	Pro
				405					410					415	
Gln	Val	Ser	Thr	Pro	Thr	Leu	Val	Glu	Val	Ser	Arg	Asn	Leu	Gly	Lys
			420					425					430		
Val	Gly	Ser	Lys	Cys	Cys	Lys	His	Pro	Glu	Ala	Lys	Arg	Met	Pro	Cys
		435					440					445			
Ala	Glu	Asp	Tyr	Leu	Ser	Val	Val	Leu	Asn	Gln	Leu	Cys	Val	Leu	His
	450					455					460				
Glu	Lys	Thr	Pro	Val	Ser	Asp	Arg	Val	Thr	Lys	Cys	Cys	Thr	Glu	Ser
465					470					475					480
Leu	Val	Asn	Arg	Arg	Pro	Cys	Phe	Ser	Ala	Leu	Glu	Val	Asp	Glu	Thr
				485					490					495	
Tyr	Val	Pro	Lys	Glu	Phe	Asn	Ala	Glu	Thr	Phe	Thr	Phe	His	Ala	Asp
			500					505					510		

Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala  
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Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu  
530 535 540

Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys  
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Ala Asp Asp Lys Glu Thr Cys Phe Ala Glu Glu Gly Lys Lys Leu Val  
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Ala Ala Ser Gln Ala Ala Leu Gly Leu  
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site in pPPC0006

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site in pPPC0006

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site in pPPC0006

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site in pPPC0006

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<210> 23  
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<220>  
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<223> Synthetic oligonucleotide used to alter restriction  
sites in pPPC0007

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aagctgcctt aggcttataa taaggcgcgc cggccggccg tttaaactaa gcttaattct 60

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sites in pPPC0007

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<210> 25  
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fusion protein in which the albumin moiety is N-terminal  
of the Therapeutic Protein

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<223> n equals a, t, g, or c

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fusion protein in which the albumin moiety is N-terminal  
of the Therapeutic Protein

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51

<210> 27  
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<220>  
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<400> 27  
aggagcgtcg acaaaagann nnnnnnnnnn nnn

33

<210> 28  
<211> 52  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> primer\_bind  
<223> reverse primer useful for generation of albumin  
fusion protein in which the albumin moiety is c-terminal of  
the Therapeutic Protein

<220>  
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<223> n equals a, t, g, or c

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<222> (51)  
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<400> 28

ctttaaatacg atgagcaacc tcactcttgt gtgcacnnn nnnnnnnnnn nn

52

<210> 29

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<221> signal

<223> signal peptide of natural human serum albumin protein

<400> 29

Met Lys Trp Val Ser Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala  
1 5 10 15

Tyr Ser Arg Ser Leu Asp Lys Arg  
20

<210> 30

<211> 114

<212> DNA

<213> Artificial Sequence

<220>

<221> primer\_bind

<223> forward primer useful for generation of PC4:HSA  
albumin fusion VECTOR

<220>

<221> misc\_feature

<222> (5)..(10)

<223> BamHI restriction site

<220>

<221> misc\_feature

<222> (11)..(16)

<223> Hind III restriction site

<220>

<221> misc\_feature

<222> (17)..(27)

<223> Kozak sequence

<220>

<221> misc\_feature

<222> (25)..(97)

<223> cds natural signal sequence of human serum albumin

<220>

<221> misc\_feature

<222> (75)..(81)

<223> XhoI restriction site

<220>

<221> misc\_feature

<222> (98)..(114)  
 <223> cds first six amino acids of human serum albumin

<400> 30  
 tcagggatcc aagcttccgc caccatgaag tgggtaacct ttatttccct tctttttctc 60  
 tttagctcgg cttactcgag ggggtgtgtt cgtcgagatg cacacaagag tgag 114

<210> 31  
 <211> 43  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> primer\_bind  
 <223> reverse primer useful for generation of  
 PC4:HSA albumin fusion VECTOR

<220>  
 <221> misc\_feature  
 <222> (6)..(11)  
 <223> Asp718 restriction site

<220>  
 <221> misc\_feature  
 <222> (12)..(17)  
 <223> EcoRI restriction site

<220>  
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 <222> (15)..(17)  
 <223> reverse complement of stop codon

<220>  
 <221> misc\_feature  
 <222> (18)..(25)  
 <223> AscI restriction site

<220>  
 <221> misc\_feature  
 <222> (18)..(43)  
 <223> reverse complement of DNA sequence encoding last 9 amino acids

<400> 31  
 gcagcggtac cgaattcggc ggcgcttata agcctaaggc agc 43

<210> 32  
 <211> 46  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> primer\_bind  
 <223> forward primer useful for inserting Therapeutic  
 protein into pC4:HSA vector

<220>  
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<223> n equals a, t, g, or c

<220>  
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<220>  
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<222> (31)  
<223> n equals a, t, g, or c

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<223> n equals a, t, g, or c

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<223> n equals a, t, g, or c

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<222> (36)  
<223> n equals a, t, g, or c

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<222> (37)  
<223> n equals a, t, g, or c

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<220>



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<223> n equals a, t, g, or c

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<223> n equals a, t, g, or c

<220>  
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<222> (46)  
<223> n equals a, t, g, or c

<400> 32  
ccgccgctcg aggggtgtgt ttcgtcgann nnnnnnnnnn nnnnnn

46

<210> 33  
<211> 55  
<212> DNA  
<213> Artificial Sequence

<220>  
<221> primer\_bind  
<223> reverse primer useful for inserting Therapeutic  
protein into pC4:HSA vector

<220>  
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<222> (38)  
<223> n equals a, t, g, or c

<220>  
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<222> (39)  
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<222> (40)  
<223> n equals a, t, g, or c

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<223> n equals a, t, g, or c

<220>  
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<222> (55)  
<223> n equals a, t, g, or c

<400> 33  
agtcccatcg atgagcaacc tcactcttgt gtgcatcnnn nnnnnnnnnnn nnnnn 55

<210> 34  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> signal  
<223> Stanniocalcin signal peptide

<400> 34  
Met Leu Gln Asn Ser Ala Val Leu Leu Leu Leu Val Ile Ser Ala Ser  
1 5 10 15

Ala

<210> 35  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> signal  
<223> Synthetic signal peptide

<400> 35  
Met Pro Thr Trp Ala Trp Trp Leu Phe Leu Val Leu Leu Leu Ala Leu  
1 5 10 15

Trp Ala Pro Ala Arg Gly  
20

<210> 36  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 36  
caggtgcagc tgggtgcagtc tgg

23

<210> 37  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 37  
caggtcaact taagggagtc tgg

23

<210> 38  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 38  
gaggtgcagc tgggtggagtc tgg

23

<210> 39  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 39

caggtgcagc tgcaggagtc ggg 23

<210> 40  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 40  
gaggtgcagc tgttgcagtc tgc 23

<210> 41  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate VH forward primer useful for  
amplifying human VH domains

<400> 41  
caggtacagc tgcagcagtc agg 23

<210> 42  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate JH reverse primer useful for  
amplifying human VH domains

<400> 42  
tgaggagacg gtgaccaggg tgcc 24

<210> 43  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate JH reverse primer useful for  
amplifying human VH domains

<400> 43  
tgaagagacg gtgaccattg tccc 24

<210> 44  
<211> 24

<212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate JH reverse primer useful for  
 amplifying human VH domains

<400> 44  
 tgaggagacg gtgaccaggg ttcc 24

<210> 45  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate JH reverse primer useful for  
 amplifying human VH domains

<400> 45  
 tgaggagacg gtgaccgtgg tccc 24

<210> 46  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate Vkappa forward primer useful for  
 amplifying human VL domains

<400> 46  
 gacatccaga tgacccagtc tcc 23

<210> 47  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate Vkappa forward primer useful for  
 amplifying human VL domains

<400> 47  
 gatgttgtga tgactcagtc tcc 23

<210> 48  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind

<223>Degenerate Vkappa forward primer useful for  
amplifying human VL domains

<400> 48

gatattgtga tgactcagtc tcc

23

<210> 49

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<221>primer\_bind

<223>Degenerate Vkappa forward primer useful for  
amplifying human VL domains

<400> 49

gaaattgtgt tgacgcagtc tcc

23

<210> 50

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<221>primer\_bind

<223>Degenerate Vkappa forward primer useful for  
amplifying human VL domains

<400> 50

gacatcgtga tgacccagtc tcc

23

<210> 51

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<221>primer\_bind

<223>Degenerate Vkappa forward primer useful for  
amplifying human VL domains

<400> 51

gaaacgacac tcacgcagtc tcc

23

<210> 52

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<221>primer\_bind

<223>Degenerate Vkappa forward primer useful for  
amplifying human VL domains

<400> 52

gaaattgtgc tgactcagtc tcc

23

<210> 53  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Vlambda forward primer useful for  
amplifying human VL domains

<400> 53  
cagtctgtgt tgacgcagcc gcc

23

<210> 54  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Vlambda forward primer useful for  
amplifying human VL domains

<400> 54  
cagtctgccc tgactcagcc tgc

23

<210> 55  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Vlambda forward primer useful for  
amplifying human VL domains

<400> 55  
tcctatgtgc tgactcagcc acc

23

<210> 56  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Vlambda forward primer useful for  
amplifying human VL domains

<400> 56  
tcttctgagc tgactcagga ccc

23

<210> 57  
<211> 23  
<212> DNA  
<213> Artificial Sequence



<220>  
 <221>primer\_bind  
 <223>Degenerate Vlamba forward primer useful for  
 amplifying human VL domains

<400> 57  
 cacgttatac tgactcaacc gcc 23

<210> 58  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate Vlamba forward primer useful for  
 amplifying human VL domains

<400> 58  
 caggctgtgc tcactcagcc gtc 23

<210> 59  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate Vlamba forward primer useful for  
 amplifying human VL domains

<400> 59  
 aattttatgc tgactcagcc cca 23

<210> 60  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate Jkappa reverse primer useful for  
 amplifying human VL domains

<400> 60  
 acgtttgatt tccaccttgg tccc 24

<210> 61  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate Jkappa reverse primer useful for  
 amplifying human VL domains

<p>&lt;400&gt; 61  acgtttgatc tccagcttgg tccc</p>	24
<p>&lt;210&gt; 62  &lt;211&gt; 24  &lt;212&gt; DNA  &lt;213&gt; Artificial Sequence</p>	
<p>&lt;220&gt;  &lt;221&gt;primer_bind  &lt;223&gt;Degenerate Jkappa reverse primer useful for  amplifying human VL domains</p>	
<p>&lt;400&gt; 62  acgtttgata tccactttgg tccc</p>	24
<p>&lt;210&gt; 63  &lt;211&gt; 24  &lt;212&gt; DNA  &lt;213&gt; Artificial Sequence</p>	
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<p>&lt;400&gt; 63  acgtttgatc tccaccttgg tccc</p>	24
<p>&lt;210&gt; 64  &lt;211&gt; 24  &lt;212&gt; DNA  &lt;213&gt; Artificial Sequence</p>	
<p>&lt;220&gt;  &lt;221&gt;primer_bind  &lt;223&gt;Degenerate Jkappa reverse primer useful for  amplifying human VL domains</p>	
<p>&lt;400&gt; 64  acgtttaatc tccagtcgtg tccc</p>	24
<p>&lt;210&gt; 65  &lt;211&gt; 23  &lt;212&gt; DNA  &lt;213&gt; Artificial Sequence</p>	
<p>&lt;220&gt;  &lt;221&gt;primer_bind  &lt;223&gt;Degenerate Jlambda reverse primer useful for  amplifying human VL domains</p>	
<p>&lt;400&gt; 65  cagtctgtgt tgacgcagcc gcc</p>	23
<p>&lt;210&gt; 66</p>	

<211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate Jlambda reverse primer useful for  
 amplifying human VL domains

<400> 66  
 cagtctgccc tgactcagcc tgc 23

<210> 67  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate Jlambda reverse primer useful for  
 amplifying human VL domains

<400> 67  
 tcctatgtgc tgactcagcc acc 23

<210> 68  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate Jlambda reverse primer useful for  
 amplifying human VL domains

<400> 68  
 tcttctgagc tgactcagga ccc 23

<210> 69  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221>primer\_bind  
 <223>Degenerate Jlambda reverse primer useful for  
 amplifying human VL domains

<400> 69  
 cacgttatac tgactcaacc gcc 23

<210> 70  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>

<221>primer\_bind  
<223>Degenerate Jlambda reverse primer useful for  
amplifying human VL domains

<400> 70  
caggctgtgc tcactcagcc gtc

23

<210> 71  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<221>primer\_bind  
<223>Degenerate Jlambda reverse primer useful for  
amplifying human VL domains

<400> 71  
aattttatgc tgactcagcc cca

23

<210> 72  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<221>turn  
<223>Linker peptide that may be used to join VH  
and VL domains in an scFv.

<400> 72  
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
1 5 10 15

<210> 73  
<211> 101  
<212> PRT  
<213> Homo sapiens

<400> 73  
Pro Ala Leu Phe Ile Cys Val Ile Ile Phe Val Asn Ile Val Phe Ser  
1 5 10 15

Val Val Ala Thr Ser Ser Pro Pro Ala Ser Gly Ser Val Cys Leu Pro  
20 25 30

Gly Leu Leu Ala Pro His Trp Ala Ala Pro Gly Ser Leu Pro Leu Ile  
35 40 45

Pro Gly Leu Ala Val Arg Pro Ser Gln Gln Gly Pro Val Thr Gln Gln  
50 55 60

Pro Ala Gln Ser Ile Cys Phe Trp Gly Met Gly Trp Gly Leu Leu His  
65 70 75 80

Arg Arg Phe Glu Pro Ser Thr Leu Gly Lys Gly Thr Leu His Asp Thr  
85 90 95

Pro Leu Pro Pro Ser  
100

<210> 74  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 74  
Arg Pro Ser Leu Pro Lys Cys Ala Ala Leu Val His Val Pro Asn Gly  
1 5 10 15  
Pro Ser Pro His Ala Pro Pro Xaa Ser Gly Val Gly Ala Pro Ser Glu  
20 25 30  
Val Ser Glu Ser Leu Lys Cys Ser Phe Val Arg Pro Leu Cys Ser Asp  
35 40 45  
Ser Pro Gly Gln Ala Thr Ser Asn Pro Leu  
50 55

<210> 75  
<211> 119  
<212> PRT  
<213> Homo sapiens

<400> 75  
Asp Leu Asp Leu Met Glu Ser Gly Val Ser Thr His Asn Met Ser Ser  
1 5 10 15  
Trp Thr Leu Gly Ile His Cys Glu Gln Ala Gly Trp Gly Leu Pro Ala  
20 25 30  
Gln Ile Gly Ala Ile Leu Phe Cys Ile Leu Phe Gln Gly Val Leu Asn  
35 40 45  
Thr Leu Lys Gln Val Glu Ala Pro Ala Pro Asp Trp Glu Leu Leu Glu  
50 55 60  
Arg Pro Pro Cys Val Cys Val Val Leu Ser Trp Ser His Ile Glu Ser  
65 70 75 80  
Gly Trp Gly Ser Ser Thr Arg Gln Ser Pro Ser Asn Ser Gln Val Leu  
85 90 95

Ala Pro Ser Gly Lys Ala Asp Thr Leu Ser Trp Arg Arg Pro Arg Lys  
100 105 110

Ser Gly Leu Arg Val Ala Ala  
115

<210> 76  
<211> 90  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 76  
Val Thr Cys Gln Xaa Val Leu Pro Ser Pro Val Tyr Leu Cys Asn Tyr  
1 5 10 15

Phe Cys Lys His Cys Ile Leu Cys Gly Arg His Leu Leu Ala Pro Ser  
20 25 30

Leu Gly Phe Ser Leu Ser Ser Arg Pro Ala Cys Thr Ser Leu Gly Cys  
35 40 45

Ser Gly Val Ser Ala Pro His Ser Arg Pro Gly Cys Gln Ala Gln Pro  
50 55 60

Ala Gly Ala Arg Asp Pro Ala Ala Cys Pro Lys His Leu Phe Leu Gly  
65 70 75 80

Asp Gly Val Gly Ala Ala Pro Gln Glu Val  
85 90

<210> 77  
<211> 70  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 77

Met Asp Pro Ala Ala Val Ala Leu Leu Ala Leu Ser Leu Pro Cys Ala  
1 5 10 15

Leu Val Gly Val Gln Trp Glu Gln Ala Pro Trp Gly Xaa Trp Arg Leu  
20 25 30

Ser Xaa Ser Ala Xaa Thr Pro Glu Thr Pro Ser Trp Arg Leu Cys Pro  
35 40 45

Leu Arg Asp Tyr Pro Lys Pro Gly Gln Arg Ser Gly Gly Asp Arg Gly  
50 55 60

Ser His Ile Arg Ser Leu  
65 70

<210> 78

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 78

Gln Trp Xaa Gly Gln Gly Ser Leu Cys Pro Trp Tyr Cys Cys Pro Gly  
1 5 10 15

Xaa Val Ser Ala Val Thr Leu Leu Pro Ser Trp Trp Leu Leu Arg Pro  
20 25 30

Xaa Phe Val Leu Leu Phe Leu Pro Lys Cys Leu Ser Ser Pro Ser Cys  
35 40 45

Ile Lys Tyr Pro Cys Cys Ala Thr Asn Tyr Leu Glu Leu Gly Asp Phe  
50 55 60

Thr Thr Thr Ala Cys Gln Arg Pro Ala Val Asp Glu Gly Leu Gly Gly  
65 70 75 80

Met Ala Gly Pro Ala Gln Gly Ser Leu Ala Glu Val Gly Ala Glu Ala

					85						90						95
Ala	Arg	His	Trp	Arg	Leu	Gly	Leu	Ser	His	Thr	Pro	Trp	Leu	Leu	Gly		
			100					105					110				
Gly	Cys	Ile	Leu	Leu	Ser	Ser	Leu	Ser	Ser	Arg	Gly	Cys	Thr	Leu	Gly		
		115					120					125					
Cys	Arg	Pro	Pro	Val	Ser	Leu	Thr	Gly	Tyr	Ser	Trp	Gly	Ser	Leu	Arg		
	130					135					140						
Ser	Trp	Arg	Cys	Pro	Gln	Pro	Pro	Ser	Pro	Arg	Leu	Pro	Pro	Pro	His		
145					150					155					160		
Thr	Leu	Arg	Pro	Gln	Arg	Phe	Val	Arg	Val	His	Glu	Ile	Leu	Glu	Leu		
				165					170					175			
Pro	Gly	Cys	Ser	Phe	Cys	Asn	Ile	Phe	Asn	Ile	Cys	Asn	Pro	Val	Lys		
			180					185					190				

Tyr Gln

<210> 79  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 79															
Met	Asp	Pro	Ala	Ala	Val	Ala	Leu	Leu	Ala	Leu	Ser	Leu	Pro	Cys	Ala
1				5					10					15	
Leu	Val	Gly	Val	Gln	Trp	Glu	Gln	Ala	Pro	Trp	Gly	Pro	Trp	Arg	Leu
			20					25					30		
Ser	Leu	Leu	Ser	Pro	His	Pro	Arg	Asp	Pro	Ile	Val	Ala	Pro	Val	Ser
		35					40					45			
Thr	Gln	Gly	Leu	Ser	Gln	Ala	Trp	Pro	Glu	Val	Gly	Arg	Gly	Gln	Arg
	50					55					60				
Glu	Pro	His	Arg	Ser	Leu	Tyr	Gln	Pro	Leu	Ser	Tyr	His	Arg	Val	Gly
65					70					75					80
Ala	Leu	Pro	Ser	His	Arg	Val	Ser	Gly	Leu	Trp	Ala	Pro	Pro	Ser	Cys
				85					90					95	
Thr	Gly	Pro	Arg	Gly	His	Phe									
			100												

<210> 80  
 <211> 477  
 <212> PRT



<213> Homo sapiens

<400> 80

Met	Ala	Ala	Pro	Thr	Pro	Ala	Arg	Pro	Val	Leu	Thr	His	Leu	Leu	Val
1				5					10					15	
Ala	Leu	Phe	Gly	Met	Gly	Ser	Trp	Ala	Ala	Val	Asn	Gly	Ile	Trp	Val
			20					25					30		
Glu	Leu	Pro	Val	Val	Val	Lys	Glu	Leu	Pro	Glu	Gly	Trp	Ser	Leu	Pro
		35					40					45			
Ser	Tyr	Val	Ser	Val	Leu	Val	Ala	Leu	Gly	Asn	Leu	Gly	Leu	Leu	Val
	50					55					60				
Val	Thr	Leu	Trp	Arg	Arg	Leu	Ala	Pro	Gly	Lys	Asp	Glu	Gln	Val	Pro
65					70					75					80
Ile	Arg	Val	Val	Gln	Val	Leu	Gly	Met	Val	Gly	Thr	Ala	Leu	Leu	Ala
				85					90					95	
Ser	Leu	Trp	His	His	Val	Ala	Pro	Val	Ala	Gly	Gln	Leu	His	Ser	Val
			100					105					110		
Ala	Phe	Leu	Ala	Leu	Ala	Phe	Val	Leu	Ala	Leu	Ala	Cys	Cys	Ala	Ser
		115					120					125			
Asn	Val	Thr	Phe	Leu	Pro	Phe	Leu	Ser	His	Leu	Pro	Pro	Arg	Phe	Leu
	130					135					140				
Arg	Ser	Phe	Phe	Leu	Gly	Gln	Gly	Leu	Ser	Ala	Leu	Leu	Pro	Cys	Val
145					150					155					160
Leu	Ala	Leu	Val	Gln	Gly	Val	Gly	Arg	Leu	Glu	Cys	Pro	Pro	Ala	Pro
				165					170					175	
Ile	Asn	Gly	Thr	Pro	Gly	Pro	Pro	Leu	Asp	Phe	Leu	Glu	Arg	Phe	Pro
			180					185					190		
Ala	Ser	Thr	Phe	Phe	Trp	Ala	Leu	Thr	Ala	Leu	Leu	Val	Ala	Ser	Ala
		195					200					205			
Ala	Ala	Phe	Gln	Gly	Leu	Leu	Leu	Leu	Leu	Pro	Pro	Pro	Pro	Ser	Val
	210					215					220				
Pro	Thr	Gly	Glu	Leu	Gly	Ser	Gly	Leu	Gln	Val	Gly	Ala	Pro	Gly	Ala
225					230					235					240
Glu	Glu	Glu	Val	Glu	Glu	Ser	Ser	Pro	Leu	Gln	Glu	Pro	Pro	Ser	Gln
				245					250					255	
Ala	Ala	Gly	Thr	Thr	Pro	Gly	Pro	Asp	Pro	Lys	Ala	Tyr	Gln	Leu	Leu
			260					265					270		
Ser	Ala	Arg	Ser	Ala	Cys	Leu	Leu	Gly	Leu	Leu	Ala	Ala	Thr	Asn	Ala
		275					280					285			

Leu Thr Asn Gly Val Leu Pro Ala Val Gln Ser Phe Ser Cys Leu Pro  
 290 295 300  
 Tyr Gly Arg Leu Ala Tyr His Leu Ala Val Val Leu Gly Ser Ala Ala  
 305 310 315 320  
 Asn Pro Leu Ala Cys Phe Leu Ala Met Gly Val Leu Cys Arg Tyr Thr  
 325 330 335  
 Arg Thr Pro Ser Pro Cys Ala Gly Gly Thr Gln Gly Trp Glu Pro Gly  
 340 345 350  
 Pro Gly Ala Val Ser Pro Asp Ile Leu Leu Ala His Cys Arg Ser Leu  
 355 360 365  
 Ala Gly Leu Gly Gly Leu Ser Leu Leu Gly Val Phe Cys Gly Gly Tyr  
 370 375 380  
 Leu Met Ala Leu Ala Val Leu Ser Pro Cys Pro Pro Leu Val Gly Thr  
 385 390 395 400  
 Ser Ala Gly Val Val Leu Val Val Leu Ser Trp Val Leu Cys Leu Gly  
 405 410 415  
 Val Phe Ser Tyr Val Lys Val Ala Ala Ser Ser Leu Leu His Gly Gly  
 420 425 430  
 Gly Arg Pro Ala Leu Leu Ala Ala Gly Val Ala Ile Gln Val Gly Ser  
 435 440 445  
 Leu Leu Gly Ala Val Ala Met Phe Pro Pro Thr Ser Ile Tyr His Val  
 450 455 460  
 Phe His Ser Arg Lys Asp Cys Ala Asp Pro Cys Asp Ser  
 465 470 475

<210> 81  
 <211> 445  
 <212> PRT  
 <213> Homo sapiens

<400> 81  
 Met Ala Ala Pro Thr Pro Ala Arg Pro Val Leu Thr His Leu Leu Val  
 1 5 10 15  
 Ala Leu Phe Gly Met Gly Ser Trp Ala Ala Val Asn Gly Ile Trp Val  
 20 25 30  
 Glu Leu Pro Val Val Val Lys Glu Leu Pro Glu Gly Trp Ser Leu Pro  
 35 40 45  
 Ser Tyr Val Ser Val Leu Val Ala Leu Gly Asn Leu Gly Leu Leu Val  
 50 55 60  
 Val Thr Leu Trp Arg Arg Leu Ala Pro Gly Lys Asp Glu Gln Val Pro

65						70						75						80
Ile	Arg	Val	Val	Gln	Val	Leu	Gly	Met	Val	Gly	Thr	Ala	Leu	Leu	Ala			
				85					90					95				
Ser	Leu	Trp	His	His	Val	Ala	Pro	Val	Ala	Gly	Gln	Leu	His	Ser	Val			
			100					105					110					
Ala	Phe	Leu	Ala	Leu	Ala	Phe	Val	Leu	Ala	Leu	Ala	Cys	Cys	Ala	Pro			
		115					120					125						
Asn	Val	Thr	Phe	Leu	Pro	Phe	Leu	Ser	His	Leu	Pro	Pro	Arg	Phe	Leu			
	130					135					140							
Arg	Ser	Phe	Phe	Leu	Gly	Gln	Gly	Leu	Ser	Ala	Leu	Leu	Pro	Cys	Val			
145					150					155					160			
Leu	Ala	Leu	Val	Gln	Gly	Val	Gly	Arg	Leu	Glu	Cys	Pro	Pro	Ala	Pro			
				165					170					175				
Ile	Asn	Gly	Thr	Pro	Gly	Pro	Pro	Leu	Asp	Phe	Leu	Glu	Arg	Phe	Pro			
			180					185					190					
Ala	Ser	Thr	Phe	Phe	Trp	Ala	Leu	Thr	Ala	Leu	Leu	Val	Ala	Ser	Ala			
		195					200					205						
Ala	Ala	Phe	Gln	Gly	Leu	Leu	Leu	Leu	Leu	Pro	Pro	Pro	Pro	Ser	Val			
	210					215				220								
Pro	Thr	Gly	Glu	Leu	Gly	Ser	Gly	Leu	Gln	Val	Gly	Ala	Pro	Gly	Ala			
225					230					235				240				
Glu	Glu	Glu	Val	Glu	Glu	Ser	Ser	Pro	Leu	Gln	Glu	Pro	Pro	Ser	Gln			
				245					250					255				
Ala	Ala	Gly	Thr	Thr	Pro	Gly	Pro	Asp	Pro	Lys	Ala	Tyr	Gln	Leu	Leu			
			260					265					270					
Ser	Ala	Arg	Ser	Ala	Cys	Leu	Leu	Gly	Leu	Leu	Ala	Ala	Thr	Asn	Ala			
		275					280					285						
Leu	Thr	Asn	Gly	Val	Leu	Pro	Ala	Val	Gln	Ser	Phe	Ser	Cys	Leu	Pro			
	290					295					300							
Tyr	Gly	Arg	Leu	Ala	Tyr	His	Leu	Ala	Val	Val	Leu	Gly	Ser	Ala	Ala			
305					310					315				320				
Asn	Pro	Leu	Ala	Cys	Phe	Leu	Ala	Met	Gly	Val	Leu	Cys	Arg	Ser	Leu			
				325					330					335				
Ala	Gly	Leu	Gly	Gly	Leu	Ser	Leu	Leu	Gly	Val	Phe	Cys	Gly	Gly	Tyr			
			340					345					350					
Leu	Met	Ala	Leu	Ala	Val	Leu	Ser	Pro	Cys	Pro	Pro	Leu	Val	Gly	Thr			
		355					360					365						
Ser	Ala	Gly	Val	Val	Leu	Val	Val	Leu	Ser	Trp	Val	Leu	Cys	Leu	Gly			

370		375		380	
Val Phe Ser Tyr Val Lys Val Ala Ala Ser Ser Leu Leu His Gly Gly					
385		390		395	400
Gly Arg Pro Ala Leu Leu Ala Ala Gly Val Ala Ile Gln Val Gly Ser					
	405		410		415
Leu Leu Gly Ala Val Ala Met Phe Pro Pro Thr Ser Ile Tyr His Val					
	420		425		430
Phe His Ser Arg Lys Asp Cys Ala Asp Pro Cys Asp Ser					
	435		440		445

<210> 82  
 <211> 264  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (196)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (224)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (233)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 82	
Met Leu Arg Leu Phe Glu Thr Phe Leu Glu Thr Ala Pro Gln Leu Thr	
1	15
Leu Val Leu Ala Ile Met Leu Gln Ser Gly Arg Ala Glu Tyr Tyr Gln	
20	30
Trp Val Gly Ile Cys Thr Ser Phe Leu Gly Ile Ser Trp Ala Leu Leu	
35	45
Asp Tyr His Arg Ala Leu Arg Thr Cys Leu Pro Ser Lys Pro Leu Leu	
50	60
Gly Leu Gly Ser Ser Val Ile Tyr Phe Leu Trp Asn Leu Leu Leu Leu	
65	80
Trp Pro Arg Val Leu Ala Val Ala Leu Phe Ser Ala Leu Phe Pro Ser	
85	95
Tyr Val Ala Leu His Phe Leu Gly Leu Trp Leu Val Leu Leu Leu Trp	
100	110

Val	Trp	Leu	Gln	Gly	Thr	Asp	Phe	Met	Pro	Asp	Pro	Ser	Ser	Glu	Trp
	115						120					125			
Leu	Tyr	Arg	Val	Thr	Val	Ala	Thr	Ile	Leu	Tyr	Phe	Ser	Trp	Phe	Asn
	130					135					140				
Val	Ala	Glu	Gly	Arg	Thr	Arg	Gly	Arg	Ala	Ile	Ile	His	Phe	Ala	Phe
145					150					155					160
Leu	Leu	Ser	Asp	Ser	Ile	Leu	Leu	Val	Ala	Thr	Trp	Val	Thr	His	Ser
				165					170					175	
Ser	Trp	Leu	Pro	Ser	Gly	Ile	Pro	Leu	Gln	Leu	Trp	Leu	Pro	Val	Gly
		180						185					190		
Cys	Gly	Cys	Xaa	Phe	Leu	Gly	Leu	Ala	Leu	Arg	Leu	Val	Tyr	Tyr	His
		195					200					205			
Trp	Leu	His	Pro	Ser	Cys	Cys	Trp	Lys	Pro	Asp	Pro	Asp	Gln	Val	Xaa
	210					215					220				
Gly	Ala	Arg	Ser	Leu	Leu	Ser	Pro	Xaa	Gly	Tyr	Gln	Leu	Pro	Gln	Asn
225					230					235					240
Arg	Arg	Met	Thr	His	Leu	Ala	Gln	Lys	Phe	Phe	Pro	Lys	Ala	Lys	Asp
				245					250					255	
Glu	Ala	Ala	Ser	Pro	Val	Lys	Gly								
			260												

<210> 83  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (82)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 83

Leu Pro Tyr Pro Gly Leu Gly Gly His Arg Gly Cys Pro Leu Glu Phe  
1 5 10 15

Phe Leu Pro Ser Pro Thr Pro Phe Ile Gln Phe Met Lys Gln Ile Phe  
20 25 30

Ala Lys Ser Ser Leu Cys Ala Arg Asn Ile Ile Leu Ser Leu Gln Pro  
35 40 45

Gly Thr Arg Pro Ala Thr Ser Leu Ala Ser Ser Xaa Thr Cys Thr Asn  
50 55 60

Gln Ser Arg Val Arg Ser Gln Met Xaa Glu Xaa Arg Asp Ala Gln Leu  
65 70 75 80

Trp Xaa Ala Pro Val Arg Thr Ser Gly Ile Ser Val Lys Leu Ala Trp  
85 90 95

Pro Leu Leu Leu Leu Ser Arg Gly Cys Phe Ser Thr Lys Ser Leu Val  
100 105 110

Ser Leu Val  
115

<210> 84

<211> 264

<212> PRT

<213> Homo sapiens

<400> 84

Met Leu Arg Leu Phe Glu Thr Phe Leu Glu Thr Ala Pro Gln Leu Thr  
1 5 10 15

Leu Val Leu Ala Ile Met Leu Gln Ser Gly Arg Ala Glu Tyr Tyr Gln  
20 25 30

Trp Val Gly Ile Cys Thr Ser Phe Leu Gly Ile Ser Trp Ala Leu Leu  
35 40 45

Asp Tyr His Arg Ala Leu Arg Thr Cys Leu Pro Ser Lys Pro Leu Leu  
50 55 60

Gly Leu Gly Ser Ser Val Ile Tyr Phe Leu Trp Asn Leu Leu Leu Leu  
65 70 75 80

Trp Pro Arg Val Leu Ala Val Ala Leu Phe Ser Ala Leu Phe Pro Ser  
85 90 95

Tyr Val Ala Leu His Phe Leu Gly Leu Trp Leu Val Leu Leu Leu Trp  
100 105 110

Val Trp Leu Gln Gly Thr Asp Phe Met Pro Asp Pro Ser Ser Glu Trp  
115 120 125

Leu Tyr Arg Val Thr Val Ala Thr Ile Leu Tyr Phe Ser Trp Phe Asn  
 130 135 140  
 Val Ala Glu Gly Arg Thr Arg Gly Arg Ala Ile Ile His Phe Ala Phe  
 145 150 155 160  
 Leu Leu Ser Asp Ser Ile Leu Leu Val Ala Thr Trp Val Thr His Ser  
 165 170 175  
 Ser Trp Leu Pro Ser Gly Ile Pro Leu Gln Leu Trp Leu Pro Val Gly  
 180 185 190  
 Cys Gly Cys Phe Phe Leu Gly Leu Ala Leu Arg Leu Val Tyr Tyr His  
 195 200 205  
 Trp Leu His Pro Ser Cys Cys Trp Lys Pro Asp Pro Asp Gln Val Asp  
 210 215 220  
 Gly Ala Arg Ser Leu Leu Ser Pro Glu Gly Tyr Gln Leu Pro Gln Asn  
 225 230 235 240  
 Arg Arg Met Thr His Leu Ala Gln Lys Phe Phe Pro Lys Ala Lys Asp  
 245 250 255  
 Glu Ala Ala Ser Pro Val Lys Gly  
 260

<210> 85  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 85  
 Met Asn Val Phe Leu Ser Leu Pro Leu Gly Ser Ser Leu Pro Pro Leu  
 1 5 10 15  
 Leu Phe Pro Pro Ser Leu Pro Ser Leu Phe Phe Pro Leu Pro Leu Tyr  
 20 25 30  
 Leu Ser Phe Ser Ala Pro Ser Pro Ala Thr Thr Pro Gly Phe Ile Ser  
 35 40 45  
 Leu Pro Gly His Ile Pro Ser Ser Ser  
 50 55

<210> 86  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE



<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 86

Cys His Pro Gln Gln Pro Ser Cys Arg Ile Pro Leu Phe Val Leu Phe  
1 5 10 15

Ile Ser Gln Thr Ser Gln His Leu Gly Xaa Ile Glu Gly Ala Tyr Val  
20 25 30

Glu Ile Leu Gly Ala Gly Ser Pro Asn Thr Ser Glu Thr Ile Pro Asn  
35 40 45

Asn

<210> 87

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 87

Lys Glu Pro Thr Leu Lys Tyr Trp Gly Arg Val Pro Pro Ile Leu Leu  
1 5 10 15

Lys Leu Phe Gln Thr Ile Glu Lys Glu Gly His Leu Pro Asn Ser Phe  
20 25 30

Tyr Glu Ala Ser Ile Ile Leu Ile Leu Lys Pro Gly Arg Asp Thr Ala  
35 40 45

Lys Xaa Lys Lys  
50

<210> 88

<211> 155

<212> PRT

<213> Homo sapiens

<400> 88

Met Phe Phe Phe Leu Phe Pro Trp Val Leu Leu Ser Leu Pro Ser Ser  
1 5 10 15

Ser Leu Pro Leu Ser Leu Leu Tyr Ser Ser Leu Ser Leu Ser Ile Cys  
20 25 30

Pro Ser Leu Leu Gln Val Leu Pro Gln Pro Gln Asp Ser Ser Ala Ser  
35 40 45



Leu Asp Thr Ser His Pro Ala Pro Asp Arg Ser Pro Pro Ser Leu Leu  
 50 55 60  
 Ile Leu Arg Ala Leu Ser Ser Ile Cys Leu Ser Pro Cys Gln Arg Pro  
 65 70 75 80  
 Cys Cys Ala Pro Gly Gly Ala Thr His Leu Pro Gly Asn Ser Thr Phe  
 85 90 95  
 Ser His Ala Pro Asp Cys Ser Leu His Ser Ser Arg Leu Ala Gln Ser  
 100 105 110  
 Pro Val Thr His Cys Ser Ser Gly Ser Leu Gly Leu Ser Ala His Gly  
 115 120 125  
 His Leu His Ala His Pro Ser Ile Ser Val Ser Pro His Leu Ser Leu  
 130 135 140  
 Ser Ile Ser Asn Pro Cys Ser Ser Thr Lys His  
 145 150 155

<210> 89  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 89  
 Val Trp Arg Arg Cys Val Ser Trp Arg Ser Ile Arg Ala Gln Val Thr  
 1 5 10 15  
 Phe Pro Glu Asp Phe Leu Ser Leu Ser Ser Ser Val Gln Phe Gln Val  
 20 25 30  
 Ile His Val Leu Leu Asp Pro Gly Xaa Thr Gly Ile Ser Thr Asp Leu  
 35 40 45  
 Leu Ala Ser Phe Gly Leu Glu Tyr His Ser Trp Leu Gly Ala Glu Ala  
 50 55 60  
 Ala Gly Leu Ile Val Ile Tyr His Lys Val Ala Arg Lys Leu Pro Arg  
 65 70 75 80  
 Gly Val Arg Lys Ala Ala Gly Gly Gly Arg Val  
 85 90

<210> 90  
 <211> 21

<212> PRT  
<213> Homo sapiens

<400> 90  
Asp Leu His Ile Lys Leu Leu Glu His Tyr Cys Leu Thr Ser Cys Lys  
1 5 10 15  
  
Lys Val Leu Gln Leu  
20

<210> 91  
<211> 67  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 91  
Pro Gln Ser Pro Gln Arg Gly Cys Tyr Ser Met Leu Xaa Val Leu Ser  
1 5 10 15  
  
Val Ser His Pro Gln Pro Asn Lys Trp Arg Cys Val Val Pro Arg Gly  
20 25 30  
  
Pro Phe Ser His Cys Leu Ala Ser Arg Arg Gly Val Leu Gln Gly Tyr  
35 40 45  
  
Ser Phe Val Cys Thr Cys Arg Leu Val Gly Pro Glu Phe Phe Ser His  
50 55 60  
  
Val Gln Glu  
65

<210> 92  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 92  
Asp Leu His Ile Lys Leu Leu Glu His Tyr Cys Leu Thr Ser Cys Lys  
1 5 10 15  
  
Lys Val Leu Gln Leu  
20

<210> 93  
<211> 67  
<212> PRT

<213> Homo sapiens

<400> 93

Asp Gly Ala Pro Gly Pro Arg Val Gly His Gly His Pro Gly Trp Leu  
1 5 10 15

Gly Arg Arg Arg Gln Ala Leu His Val Leu Gln Leu Gly Met Trp Val  
20 25 30

Arg Glu Gly Ile Trp Phe Cys Tyr Leu Ala Val Val Phe Ser His Pro  
35 40 45

Ser Phe Leu Thr Ile Lys Ser His Leu Gly Leu Glu Lys Lys Lys Lys  
50 55 60

Lys Thr Arg  
65

<210> 94

<211> 44

<212> PRT

<213> Homo sapiens

<400> 94

Met Leu Ser Ser Ile Leu Ser Gln Leu Met Val Ser Lys Pro Trp Gly  
1 5 10 15

Val Phe Ile Ser Phe Ser Phe Ile Ser Leu Ser Phe Tyr His Ala Ile  
20 25 30

Ser Ile Ser Ser Val Pro Ser Gly Arg Gln Val Val  
35 40

<210> 95

<211> 150

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 95

Cys Pro Pro Pro Pro Lys Arg Gly Gly Ile Glu Xaa Glu Leu Gly Lys  
1 5 10 15

Leu Trp Pro Thr Phe Glu Thr Phe Arg Ala Asn Arg Arg Thr Met Leu  
20 25 30

Leu Glu Pro Leu Gly Xaa Pro Gly Gly Gly Xaa Arg Pro Phe Trp Lys  
35 40 45

Arg Ala Arg Gly Val Thr Ser Glu Ala Ile Val Thr Gly Arg Cys Asn  
50 55 60

His Cys Pro Asp Cys Gly Lys Ala Trp Arg Glu Gln Gly Glu Ser Thr  
65 70 75 80

Pro Ser Thr Cys Pro Phe Asp Pro Leu Thr Cys Trp Trp Leu Ala Leu  
85 90 95

Ala Lys Pro Glu Thr Gly Gly Gln Glu Pro Leu Ser Val Ala Ala Tyr  
100 105 110

Gly Gly Gln Pro Ser Glu Val Lys Ala Gly Gln Lys Val Glu Lys Gly  
115 120 125

Leu Gly Gly Thr His Gly Glu Gln Ser Thr Lys Phe Thr Pro Phe Val  
130 135 140

Xaa Trp His Trp Lys Ile  
145 150

<210> 96

<211> 35

<212> PRT

<213> Homo sapiens

<400> 96

Met Val Ser Lys Pro Trp Gly Val Phe Ile Ser Phe Ser Phe Ile Ser  
1 5 10 15

Leu Ser Phe Tyr His Ala Ile Ser Ile Ser Ser Val Pro Ser Gly Arg  
20 25 30

Gln Val Val  
35

<210> 97

<211> 13

<212> PRT  
<213> Homo sapiens

<400> 97  
Met Lys Ser Leu His Gly Arg Leu Leu Trp Gln Ser Ala  
1 5 10

<210> 98  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 98  
Met Lys Ser Leu His Gly Arg Leu Leu Trp Gln Ser Ala  
1 5 10

<210> 99  
<211> 353  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (260)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 99  
Met Pro Trp Pro Leu Leu Leu Leu Leu Ala Val Ser Gly Ala Gln Thr  
1 5 10 15  
Thr Arg Pro Cys Phe Pro Gly Cys Gln Cys Glu Val Glu Thr Phe Gly  
20 25 30  
Leu Phe Asp Ser Phe Ser Leu Thr Arg Val Asp Cys Ser Gly Leu Gly  
35 40 45  
Pro His Ile Met Pro Val Pro Ile Pro Leu Asp Thr Ala His Leu Asp  
50 55 60  
Leu Ser Ser Asn Arg Leu Glu Met Val Asn Glu Ser Val Leu Ala Gly  
65 70 75 80  
Pro Gly Tyr Thr Thr Leu Ala Gly Leu Asp Leu Ser His Asn Leu Leu  
85 90 95  
Thr Ser Ile Ser Pro Thr Ala Phe Ser Arg Leu Arg Tyr Leu Glu Ser  
100 105 110  
Leu Asp Leu Ser His Asn Gly Leu Thr Ala Leu Pro Ala Glu Ser Phe  
115 120 125  
Thr Ser Ser Pro Leu Ser Asp Val Asn Leu Ser His Asn Gln Leu Arg  
130 135 140

Glu	Val	Ser	Val	Ser	Ala	Phe	Thr	Thr	His	Ser	Gln	Gly	Arg	Ala	Leu
145					150					155					160
His	Val	Asp	Leu	Ser	His	Asn	Leu	Ile	His	Arg	Leu	Val	Pro	His	Pro
				165					170					175	
Thr	Arg	Ala	Gly	Leu	Pro	Ala	Pro	Thr	Ile	Gln	Ser	Leu	Asn	Leu	Ala
			180					185					190		
Trp	Asn	Arg	Leu	His	Ala	Val	Pro	Asn	Leu	Arg	Asp	Leu	Pro	Leu	Arg
		195					200					205			
Tyr	Leu	Ser	Leu	Asp	Gly	Asn	Pro	Leu	Ala	Val	Ile	Gly	Pro	Gly	Ala
	210					215					220				
Phe	Ala	Gly	Leu	Gly	Gly	Leu	Thr	His	Leu	Ser	Leu	Ala	Ser	Leu	Gln
225					230					235					240
Arg	Leu	Pro	Glu	Leu	Ala	Pro	Ser	Gly	Phe	Arg	Glu	Leu	Pro	Gly	Leu
				245					250					255	
Gln	Val	Leu	Xaa	Leu	Ser	Gly	Asn	Pro	Lys	Leu	Asn	Trp	Ala	Gly	Ala
			260					265					270		
Glu	Val	Phe	Ser	Gly	Leu	Ser	Ser	Leu	Gln	Glu	Leu	Asp	Leu	Ser	Gly
		275					280					285			
Thr	Asn	Leu	Val	Pro	Leu	Pro	Glu	Ala	Leu	Leu	Leu	His	Leu	Pro	Ala
	290					295					300				
Leu	Gln	Ser	Val	Ser	Val	Gly	Gln	Asp	Val	Arg	Cys	Arg	Arg	Leu	Val
305					310					315					320
Arg	Glu	Gly	Thr	Tyr	Pro	Arg	Arg	Pro	Gly	Ser	Ser	Pro	Lys	Val	Ala
				325					330					335	
Leu	His	Cys	Val	Asp	Thr	Arg	Glu	Ser	Ala	Ala	Arg	Gly	Pro	Thr	Ile
			340					345					350		

Leu

<210> 100  
 <211> 353  
 <212> PRT  
 <213> Homo sapiens

<400> 100  
 Met Pro Trp Pro Leu Leu Leu Leu Ala Val Ser Gly Ala Gln Thr  
 1 5 10 15  
 Thr Arg Pro Cys Phe Pro Gly Cys Gln Cys Glu Val Glu Thr Phe Gly  
 20 25 30

Leu	Phe	Asp	Ser	Phe	Ser	Leu	Thr	Arg	Val	Asp	Cys	Ser	Gly	Leu	Gly	35	40	45	
Pro	His	Ile	Met	Pro	Val	Pro	Ile	Pro	Leu	Asp	Thr	Ala	His	Leu	Asp	50	55	60	
Leu	Ser	Ser	Asn	Arg	Leu	Glu	Met	Val	Asn	Glu	Ser	Val	Leu	Ala	Gly	65	70	75	80
Pro	Gly	Tyr	Thr	Thr	Leu	Ala	Gly	Leu	Asp	Leu	Ser	His	Asn	Leu	Leu	85	90	95	
Thr	Ser	Ile	Ser	Pro	Thr	Ala	Phe	Ser	Arg	Leu	Arg	Tyr	Leu	Glu	Ser	100	105	110	
Leu	Asp	Leu	Ser	His	Asn	Gly	Leu	Thr	Ala	Leu	Pro	Ala	Glu	Ser	Phe	115	120	125	
Thr	Ser	Ser	Pro	Leu	Ser	Asp	Val	Asn	Leu	Ser	His	Asn	Gln	Leu	Arg	130	135	140	
Glu	Val	Ser	Val	Ser	Ala	Phe	Thr	Thr	His	Ser	Gln	Gly	Arg	Ala	Leu	145	150	155	160
His	Val	Asp	Leu	Ser	His	Asn	Leu	Ile	His	Arg	Leu	Val	Pro	His	Pro	165	170	175	
Thr	Arg	Ala	Gly	Leu	Pro	Ala	Pro	Thr	Ile	Gln	Ser	Leu	Asn	Leu	Ala	180	185	190	
Trp	Asn	Arg	Leu	His	Ala	Val	Pro	Asn	Leu	Arg	Asp	Leu	Pro	Leu	Arg	195	200	205	
Tyr	Leu	Ser	Leu	Asp	Gly	Asn	Pro	Leu	Ala	Val	Ile	Gly	Pro	Gly	Ala	210	215	220	
Phe	Ala	Gly	Leu	Gly	Gly	Leu	Thr	His	Leu	Ser	Leu	Ala	Ser	Leu	Gln	225	230	235	240
Arg	Leu	Pro	Glu	Leu	Ala	Pro	Ser	Gly	Phe	Arg	Glu	Leu	Pro	Gly	Leu	245	250	255	
Gln	Val	Leu	Asp	Leu	Ser	Gly	Asn	Pro	Lys	Leu	Asn	Trp	Ala	Gly	Ala	260	265	270	
Glu	Val	Phe	Ser	Gly	Leu	Ser	Ser	Leu	Gln	Glu	Leu	Asp	Leu	Ser	Gly	275	280	285	
Thr	Asn	Leu	Val	Pro	Leu	Pro	Glu	Ala	Leu	Leu	Leu	His	Leu	Pro	Ala	290	295	300	
Leu	Gln	Ser	Val	Ser	Val	Gly	Gln	Asp	Val	Arg	Cys	Arg	Arg	Leu	Val	305	310	315	320
Arg	Glu	Gly	Thr	Tyr	Pro	Arg	Arg	Pro	Gly	Ser	Ser	Pro	Lys	Val	Ala	325	330	335	

Leu His Cys Val Asp Thr Arg Glu Ser Ala Ala Arg Gly Pro Thr Ile  
 340 345 350

Leu

<210> 101  
 <211> 285  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (259)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (262)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (280)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 101  
 Met Gly Phe Leu Gln Leu Leu Val Val Ala Val Leu Ala Ser Glu His  
 1 5 10 15

Arg Val Ala Gly Ala Ala Glu Val Phe Gly Asn Ser Ser Glu Gly Leu  
 20 25 30

Ile Glu Phe Ser Val Gly Lys Phe Arg Tyr Phe Glu Leu Asn Arg Pro  
 35 40 45

Phe Pro Glu Glu Ala Ile Leu His Asp Ile Ser Ser Asn Val Thr Phe  
 50 55 60

Leu Ile Phe Gln Ile His Ser Gln Tyr Gln Asn Thr Thr Val Ser Phe  
 65 70 75 80

Ser Pro Thr Leu Leu Ser Asn Ser Ser Glu Thr Gly Thr Ala Ser Gly  
 85 90 95

Leu Val Phe Ile Leu Arg Pro Glu Gln Ser Thr Cys Thr Trp Tyr Leu  
 100 105 110

Gly Thr Ser Gly Ile Gln Pro Val Gln Asn Met Ala Ile Leu Leu Ser  
 115 120 125

Tyr Ser Glu Arg Asp Pro Val Pro Gly Gly Cys Asn Leu Glu Phe Asp  
 130 135 140

Leu Asp Ile Asp Pro Asn Ile Tyr Leu Glu Tyr Asn Phe Phe Glu Thr



145					150					155				160	
Thr	Ile	Lys	Phe	Ala	Pro	Ala	Asn	Leu	Gly	Tyr	Ala	Arg	Gly	Val	Asp
				165					170					175	
Pro	Pro	Pro	Cys	Asp	Ala	Gly	Thr	Asp	Gln	Asp	Ser	Arg	Trp	Arg	Leu
			180					185					190		
Gln	Tyr	Asp	Val	Tyr	Gln	Tyr	Phe	Leu	Pro	Glu	Asn	Asp	Leu	Thr	Glu
		195					200					205			
Glu	Met	Leu	Leu	Lys	His	Leu	Gln	Arg	Met	Val	Ser	Val	Pro	Gln	Val
	210					215					220				
Lys	Ala	Ser	Ala	Leu	Lys	Val	Val	Thr	Leu	Thr	Ala	Asn	Asp	Lys	Thr
225					230					235					240
Ser	Val	Ser	Phe	Ser	Ser	Leu	Pro	Gly	Gln	Gly	Val	Ile	Tyr	Asn	Val
				245					250					255	
Ile	Val	Xaa	Gly	Pro	Xaa	Ser	Lys	Tyr	Ile	Cys	Cys	Leu	His	Ser	Cys
			260					265					270		
Ser	His	Ile	Arg	Leu	Gln	Leu	Xaa	Arg	Ala	Gly	Arg	Gly			
		275					280					285			

<210> 102  
 <211> 417  
 <212> PRT  
 <213> Homo sapiens

<400> 102

Leu	Phe	Leu	Phe	Ser	Lys	Tyr	Thr	His	Ser	Ile	Arg	Ile	Gln	Leu	Phe
1				5					10					15	
Pro	Phe	Leu	Arg	Gly	Val	Asp	Pro	Pro	Pro	Cys	Asp	Ala	Gly	Thr	Asp
			20					25					30		
Gln	Asp	Ser	Arg	Trp	Arg	Leu	Gln	Tyr	Asp	Val	Tyr	Gln	Tyr	Phe	Leu
		35					40					45			
Pro	Glu	Asn	Asp	Leu	Thr	Glu	Glu	Met	Leu	Leu	Lys	His	Leu	Gln	Arg
	50					55					60				
Met	Val	Ser	Val	Pro	Gln	Val	Lys	Ala	Ser	Ala	Leu	Lys	Val	Val	Thr
65					70					75					80
Leu	Thr	Ala	Asn	Asp	Lys	Thr	Ser	Val	Ser	Phe	Ser	Ser	Leu	Pro	Gly
				85					90					95	
Gln	Gly	Val	Ile	Tyr	Asn	Val	Ile	Val	Trp	Asp	Pro	Phe	Leu	Asn	Thr
		100						105					110		
Ser	Ala	Ala	Tyr	Ile	Pro	Ala	His	Thr	Tyr	Ala	Cys	Ser	Phe	Glu	Ala
		115					120					125			

Gly	Glu	Gly	Ser	Cys	Ala	Ser	Leu	Gly	Arg	Val	Ser	Ser	Lys	Val	Phe			
130						135					140							
Phe	Thr	Leu	Phe	Ala	Leu	Leu	Gly	Phe	Phe	Ile	Cys	Phe	Phe	Gly	His			
145					150					155					160			
Arg	Phe	Trp	Lys	Thr	Glu	Leu	Phe	Phe	Ile	Gly	Phe	Ile	Ile	Met	Gly			
				165						170				175				
Phe	Phe	Phe	Tyr	Ile	Leu	Ile	Thr	Arg	Leu	Thr	Pro	Ile	Lys	Tyr	Asp			
			180					185					190					
Val	Asn	Leu	Ile	Leu	Thr	Ala	Val	Thr	Gly	Ser	Val	Gly	Gly	Met	Phe			
		195					200					205						
Leu	Val	Ala	Val	Trp	Trp	Arg	Phe	Gly	Ile	Leu	Ser	Ile	Cys	Met	Leu			
	210					215					220							
Cys	Val	Gly	Leu	Val	Leu	Gly	Phe	Leu	Ile	Ser	Ser	Val	Thr	Phe	Phe			
225					230					235					240			
Thr	Pro	Leu	Gly	Asn	Leu	Lys	Ile	Phe	His	Asp	Asp	Gly	Val	Phe	Trp			
				245					250					255				
Val	Thr	Phe	Ser	Cys	Ile	Ala	Ile	Leu	Ile	Pro	Val	Val	Phe	Met	Gly			
			260					265					270					
Cys	Leu	Arg	Ile	Leu	Asn	Ile	Leu	Thr	Cys	Gly	Val	Ile	Gly	Ser	Tyr			
		275					280					285						
Ser	Val	Val	Leu	Ala	Ile	Asp	Ser	Tyr	Trp	Ser	Thr	Ser	Leu	Ser	Tyr			
	290					295					300							
Ile	Thr	Leu	Asn	Val	Leu	Lys	Arg	Ala	Leu	Asn	Lys	Asp	Phe	His	Arg			
305					310					315					320			
Ala	Phe	Thr	Asn	Val	Pro	Phe	Gln	Thr	Asn	Asp	Phe	Ile	Ile	Leu	Ala			
				325					330					335				
Val	Trp	Gly	Met	Leu	Ala	Val	Ser	Gly	Ile	Thr	Leu	Gln	Ile	Arg	Arg			
			340					345					350					
Glu	Arg	Gly	Arg	Pro	Phe	Phe	Pro	Pro	His	Pro	Tyr	Lys	Leu	Trp	Lys			
		355					360					365						
Gln	Glu	Arg	Glu	Arg	Arg	Val	Thr	Asn	Ile	Leu	Asp	Pro	Ser	Tyr	His			
		370				375					380							
Ile	Pro	Pro	Leu	Arg	Glu	Arg	Leu	Tyr	Gly	Arg	Leu	Thr	Gln	Ile	Lys			
385					390					395					400			
Gly	Leu	Phe	Gln	Lys	Glu	Gln	Pro	Ala	Gly	Glu	Arg	Thr	Pro	Leu	Leu			
				405					410					415				

Leu

<210> 103  
<211> 363  
<212> PRT  
<213> Homo sapiens

<400> 103

Met	Gly	Phe	Leu	Gln	Leu	Leu	Val	Val	Ala	Val	Leu	Ala	Ser	Glu	His
1				5					10					15	
Arg	Val	Ala	Gly	Ala	Ala	Glu	Val	Phe	Gly	Asn	Ser	Ser	Glu	Gly	Leu
			20					25					30		
Ile	Glu	Phe	Ser	Val	Gly	Lys	Phe	Arg	Tyr	Phe	Glu	Leu	Asn	Arg	Pro
		35					40					45			
Phe	Pro	Glu	Glu	Ala	Ile	Leu	His	Asp	Ile	Ser	Ser	Asn	Val	Thr	Phe
	50					55					60				
Leu	Ile	Phe	Gln	Ile	His	Ser	Gln	Tyr	Gln	Asn	Thr	Thr	Val	Ser	Phe
65					70					75					80
Ser	Pro	Thr	Leu	Leu	Ser	Asn	Ser	Ser	Glu	Thr	Gly	Thr	Ala	Ser	Gly
				85					90					95	
Leu	Val	Phe	Ile	Leu	Arg	Pro	Glu	Gln	Ser	Thr	Cys	Thr	Trp	Tyr	Leu
			100					105					110		
Gly	Thr	Ser	Gly	Ile	Gln	Pro	Val	Gln	Asn	Met	Ala	Ile	Leu	Leu	Ser
		115					120					125			
Tyr	Ser	Glu	Arg	Asp	Pro	Val	Pro	Gly	Gly	Cys	Asn	Leu	Glu	Phe	Asp
	130					135					140				
Leu	Asp	Ile	Asp	Pro	Asn	Ile	Tyr	Leu	Glu	Tyr	Asn	Phe	Phe	Glu	Thr
145					150					155					160
Thr	Ile	Lys	Phe	Ala	Pro	Ala	Asn	Leu	Gly	Tyr	Ala	Arg	Gly	Val	Asp
				165					170					175	
Pro	Pro	Pro	Cys	Asp	Ala	Gly	Thr	Asp	Gln	Asp	Ser	Arg	Trp	Arg	Leu
			180					185					190		
Gln	Tyr	Asp	Val	Tyr	Gln	Tyr	Phe	Leu	Pro	Glu	Asn	Asp	Leu	Thr	Glu
		195					200					205			
Glu	Met	Leu	Leu	Lys	His	Leu	Gln	Arg	Met	Val	Ser	Val	Pro	Gln	Val
	210					215					220				
Lys	Ala	Ser	Ala	Leu	Lys	Val	Val	Thr	Leu	Thr	Ala	Asn	Asp	Lys	Thr
225					230					235					240
Ser	Val	Ser	Phe	Ser	Ser	Leu	Pro	Gly	Gln	Gly	Val	Ile	Tyr	Asn	Val
				245					250					255	

Ile	Val	Trp	Asp	Leu	Phe	Leu	Asn	Thr	Ser	Ala	Ala	Tyr	Ile	Pro	Ala			
			260					265					270					
His	Thr	Tyr	Ala	Cys	Ser	Phe	Glu	Ala	Gly	Glu	Gly	Ser	Cys	Ala	Ser			
		275					280					285						
Leu	Gly	Arg	Val	Ser	Ser	Lys	Val	Phe	Phe	Thr	Leu	Phe	Ala	Leu	Leu			
	290					295					300							
Gly	Phe	Phe	Ile	Cys	Phe	Phe	Gly	Gln	Arg	Phe	Trp	Lys	Thr	Glu	Leu			
305					310					315					320			
Phe	Phe	Ile	Gly	Phe	Ile	Ile	Met	Gly	Phe	Phe	Phe	Tyr	Ile	Leu	Ile			
				325					330					335				
Thr	Arg	Leu	Thr	Pro	Ile	Lys	Tyr	Asp	Ala	Glu	His	Thr	Asp	Leu	Trp			
			340					345					350					
Ser	His	Trp	Leu	Leu	Phe	Gly	Gly	Phe	Ser	His								
		355				360												

<210> 104  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 104  
 Met Leu Val Lys Gly Glu Gly Val Arg Leu Val Leu Arg Leu Leu Gly  
 1 5 10 15  
 Arg Asn Gly Leu His Leu Ala Pro Leu Pro Ala Leu Leu Leu His Phe  
 20 25 30  
 Leu Met Leu Pro Leu Ser Ala Pro Val Xaa Tyr Ser Leu Pro Ala Gly  
 35 40 45

Xaa Cys Leu Gln Gly Thr Gly Ser Ser Ser Phe Tyr Ser Val Lys Phe  
50 55 60

Ser Gly Ser Leu Xaa Gly Gly Lys Gly Lys Pro Xaa Asn Trp Pro  
65 70 75

<210> 105  
<211> 71  
<212> PRT  
<213> Homo sapiens

<400> 105  
Met Leu Val Lys Gly Glu Gly Val Arg Leu Val Leu Arg Leu Leu Gly  
1 5 10 15  
Arg Asn Gly Leu His Leu Ala Pro Leu Pro Ala Leu Leu Leu His Phe  
20 25 30  
Leu Met Leu Pro Leu Ser Ala Pro Val Ala Tyr Ser Leu Pro Ala Gly  
35 40 45  
Ala Cys Leu Gln Gly Thr Gly Ser Ser Ser Leu Leu Leu Cys Gln Val  
50 55 60  
Gln Leu Leu Thr Ala Arg Glu  
65 70

<210> 106  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 106  
Met Phe Glu Ala Leu Trp Ala Thr Asp Tyr Leu Cys Cys Leu Phe Leu  
1 5 10 15  
Phe Val Ser Phe Phe Arg Pro Leu Gln Lys Cys Lys Asn His Ser  
20 25 30

<210> 107  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 107  
Glu Ile Met Thr Arg Thr Asp Trp Val Lys Met Trp Phe Val Phe Leu  
1 5 10 15  
Leu Gln Leu Ala Pro Ala Cys Pro Pro Arg  
20 25

<210> 108  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 108  
Met Phe Glu Ala Leu Trp Ala Thr Asp Tyr Leu Cys Cys Leu Phe Leu  
1 5 10 15  
Phe Val Ser Phe Phe Arg Pro Leu Gln Lys Cys Lys Asn His Ser  
20 25 30

<210> 109  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 109  
Met Glu Phe Val Ser Gly Gly Lys Thr Glu Ile Leu Met Leu Phe Thr  
1 5 10 15  
Leu Leu Val Ser Cys Tyr Val Phe Leu Pro Leu Ala Leu Pro Cys Phe  
20 25 30  
Ala Phe Phe Phe Ser Phe Trp Pro Ile Pro Phe Tyr Met Cys Pro Gln  
35 40 45  
Gln Arg Trp Gly Asp Thr Glu His Pro Gly Ser Phe Pro Ala Leu Leu  
50 55 60  
Gly Arg Pro Arg Leu Gln Ala Pro Ala Val Glu Thr Leu Lys Gly Asn  
65 70 75 80  
Lys Gln Pro Ser Thr Leu Pro Asp Pro Arg Leu Phe Arg Glu Ala Ala  
85 90 95  
His Phe His Pro Gly Pro Arg Thr Pro Ser Leu Cys Pro Thr Arg Ile  
100 105 110  
Ser Leu Asn Gly Arg Asp  
115

<210> 110  
<211> 157  
<212> PRT  
<213> Homo sapiens

<400> 110  
Ser Cys Leu Pro Pro Leu Pro Leu Asn Leu Pro Leu Pro Pro Cys Leu  
1 5 10 15

Cys	Pro	Leu	Leu	Gln	Leu	Asn	Ala	Ala	Met	Thr	Arg	Lys	Glu	Lys	Thr
			20					25					30		
Lys	Glu	Gly	Gln	Arg	Ala	Ala	Gln	Phe	Ser	Ala	Gly	Ala	Asp	Ala	Gly
		35					40					45			
Ser	Gly	Gly	Gly	Leu	Ser	Arg	Gln	Lys	Asp	Thr	Lys	Arg	Pro	Met	Leu
	50					55					60				
Leu	Val	Ile	His	Asp	Val	Val	Leu	Glu	Leu	Leu	Thr	Ser	Ser	Asp	Cys
65					70					75					80
His	Ala	Asn	Pro	Arg	Lys	Tyr	Pro	Thr	Cys	Gln	Lys	Ser	Glu	Val	Leu
				85					90					95	
Gly	Val	Ser	Ile	Tyr	Val	Ser	Ile	Cys	Pro	Ser	Thr	Arg	Pro	Arg	Asp
			100					105					110		
Lys	Asn	Lys	Thr	Lys	Lys	Arg	Cys	Gln	Val	Leu	Glu	Ala	Val	Leu	Val
		115					120					125			
Ser	Lys	Pro	Ser	Gly	Ser	Cys	His	Gln	Gly	Ser	Phe	Glu	Ile	Val	Pro
	130					135					140				
His	Val	Lys	Gly	Asn	Leu	Ala	Phe	Thr	Ser	Ser	Asn	His			
145					150					155					

<210> 111  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 111															
Met	Glu	Phe	Val	Ser	Gly	Gly	Lys	Thr	Glu	Ile	Leu	Met	Leu	Phe	Thr
1				5					10					15	
Leu	Leu	Val	Ser	Cys	Tyr	Val	Phe	Leu	Pro	Leu	Ala	Leu	Pro	Cys	Phe
			20					25					30		
Ala	Phe	Phe	Phe	Ser	Phe	Trp	Pro	Ile	Pro	Phe	Tyr	Met	Cys	Pro	Gln
		35					40					45			
Gln	Arg	Trp	Gly	Asp	Thr	Glu	His	Pro	Gly	Ser	Phe	Pro	Ala	Leu	Leu
	50					55					60				
Gly	Arg	Pro	Arg	Leu	Gln	Ala	Pro	Ala	Val	Glu	Thr	Leu	Lys	Gly	Asn
65					70					75					80
Lys	Gln	Pro	Ser	Thr	Leu	Pro	Asp	Pro	Arg	Leu	Phe	Arg	Glu	Ala	Ala
				85					90					95	
His	Phe	His	Pro	Gly	Pro	Arg	Thr	Pro	Ser	Leu	Cys	Pro	Thr	Arg	Ile
			100					105					110		

Ser Leu Asn Gly Arg Asp  
115

<210> 112  
<211> 74  
<212> PRT  
<213> Homo sapiens

<400> 112  
Leu Ala Leu His Arg Cys Ser Leu Ser Cys Leu Gln Val Ser Val Cys  
1 5 10 15  
Gly Val Gly Tyr Gly Glu Glu Asn Leu His Gly Gly Pro Pro Gly Leu  
20 25 30  
Val Val Gln Ala Val Pro Arg His Ile Leu Ile Pro Ser Met Gly His  
35 40 45  
Leu Lys Met Asn Asn Asn Ser Gln Asn Phe Cys Glu Ile Lys Ser Ser  
50 55 60  
Phe Lys Arg Ser His Leu Ser Lys Arg Phe  
65 70

<210> 113  
<211> 199  
<212> PRT  
<213> Homo sapiens

<400> 113  
Met Lys Ser Gly Leu Trp Tyr Phe Phe Leu Phe Cys Leu Arg Ile Lys  
1 5 10 15  
Val Leu Thr Gly Glu Ile Asn Gly Ser Ala Asn Tyr Glu Met Phe Ile  
20 25 30  
Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp Ile Val  
35 40 45  
Gln Gln Phe Lys Met Gln Leu Leu Lys Gly Gly Gln Ile Leu Cys Asp  
50 55 60  
Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Ser Leu  
65 70 75 80  
Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu  
85 90 95  
Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser  
100 105 110  
Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu  
115 120 125



His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp Leu Pro  
130 135 140

Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys Ile Leu  
145 150 155 160

Ile Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Ser Val His Asp Pro  
165 170 175

Asn Gly Glu Tyr Met Phe Met Arg Ala Val Asn Thr Ala Lys Lys Ser  
180 185 190

Arg Leu Thr Asp Val Thr Leu  
195

<210> 114  
<211> 199  
<212> PRT  
<213> Homo sapiens

<400> 114  
Met Lys Ser Gly Leu Trp Tyr Phe Phe Leu Phe Cys Leu Arg Ile Lys  
1 5 10 15

Val Leu Thr Gly Glu Ile Asn Gly Ser Ala Asn Tyr Glu Met Phe Ile  
20 25 30

Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp Ile Val  
35 40 45

Gln Gln Phe Lys Met Gln Leu Leu Lys Gly Gly Gln Ile Leu Cys Asp  
50 55 60

Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Ser Leu  
65 70 75 80

Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu  
85 90 95

Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser  
100 105 110

Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu  
115 120 125

His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp Leu Pro  
130 135 140

Ile Gly Cys Ala Ala Phe Val Val Val Cys Ile Leu Gly Cys Ile Leu  
145 150 155 160

Ile Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Ser Val His Asp Pro  
165 170 175

Asn Gly Glu Tyr Met Phe Met Arg Ala Val Asn Thr Ala Lys Lys Ser  
180 185 190

Arg Leu Thr Asp Val Thr Leu  
195

<210> 115  
<211> 91  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 115  
Met Val Leu Arg Gly Trp Gly Leu Ala Trp Ser Xaa Ser Pro Val Val  
1 5 10 15

Cys Gly Tyr Ser Gly Asp Met Lys Gly Val Cys Trp Gly Arg Ser Asp  
20 25 30

His Ser Leu Leu Pro Ser Glu Ile Leu Leu Pro Pro Ala Pro Cys Pro  
35 40 45

Xaa Ser Xaa Val Leu His Asn Pro Pro Pro Thr Pro His Leu Pro Ser  
50 55 60

Pro Val Leu Val Arg Ile Gln Glu Ala Pro Thr Trp Ala Gln Arg Ser  
65 70 75 80

Ser Leu Gly Ala Ser Pro Leu His Lys Gly Asp  
85 90

<210> 116  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 116  
Trp Ala Leu Pro Met Ser  
1 5

<210> 117  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 117  
Gly Cys Ser Leu Tyr Asn Ser Phe Asn Asn Leu Leu Cys Leu  
1 5 10

<210> 118  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 118  
Leu Arg Glu Leu  
1

<210> 119  
<211> 91  
<212> PRT  
<213> Homo sapiens

<400> 119  
Met Val Leu Arg Gly Trp Gly Leu Ala Trp Ser Leu Ser Pro Val Val  
1 5 10 15

Cys Gly Tyr Ser Gly Asp Met Lys Gly Val Cys Trp Gly Arg Ser Asp  
20 25 30

His Ser Leu Leu Pro Ser Glu Ile Leu Leu Pro Pro Ala Pro Cys Pro  
35 40 45

Ser Ser Ala Val Leu His Asn Pro Pro Pro Thr Pro His Leu Pro Ser  
50 55 60

Pro Val Leu Val Arg Ile Gln Glu Ala Pro Thr Trp Ala Gln Arg Ser  
65 70 75 80

Ser Leu Gly Ala Ser Pro Leu His Lys Gly Asp  
85 90

<210> 120  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 120

Glu Asp Met Pro Arg Arg Lys Glu Glu Leu Thr Asp Tyr Gln Lys Lys  
 1 5 10 15  
 Lys Val Ile Leu Gln Asn Leu Lys His Ser Leu Phe Leu Ser Leu Leu  
 20 25 30  
 Ser His Tyr Phe Tyr Ser Asn Pro Leu Glu Tyr Leu His Phe Ala Ser  
 35 40 45  
 Glu Gln Arg Asp Lys Phe Phe Ser His His Val Cys Thr Gly Val Val  
 50 55 60  
 Leu Ile Leu Asp Ile Ala Gly Thr Asn Phe Ser  
 65 70 75

<210> 121  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 121

Met Met Ile Tyr Phe Ala Leu Leu Leu Ala Ser Leu Phe Phe Leu Leu  
 1 5 10 15  
 Lys Val Lys Ser His Phe Gly Cys Lys Asn Val Thr Thr Thr Ser Ala  
 20 25 30  
 Arg Ile Phe Leu Lys Pro Leu Cys Thr Pro Lys Ser Ile Phe Pro Leu  
 35 40 45  
 Ser Arg Tyr Gly Arg Met Ser Ser  
 50 55

<210> 122  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 122

Met Met Ile Tyr Phe Ala Leu Leu Leu Ala Ser Leu Phe Phe Leu Leu  
 1 5 10 15  
 Lys Val Lys Ser His Phe Gly Cys Lys Asn Val Thr Thr Thr Ser Ala  
 20 25 30  
 Arg Ile Phe Leu Lys Pro Leu Cys Thr Pro Lys Ser Ile Phe Pro Leu  
 35 40 45  
 Ser Arg Tyr Gly Arg Met Ser Ser  
 50 55

<210> 123  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 123  
Met Gly Asn Gln Asp Glu Asn Gln Gly Leu Ser Val Ile Arg Leu Leu  
1 5 10 15  
Leu Ile Ile Thr Ile Arg Arg Val Gln Met Trp Asp Lys Ile Leu Thr  
20 25 30  
Pro Ala Phe Ser Gln Met Val Asn Leu Pro Val Ala Leu Glu Leu His  
35 40 45  
Ile Val Leu Phe Val Cys Phe Thr Glu Ser Val  
50 55

<210> 124  
<211> 114  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 124  
Gln Arg Ala Met Ala Cys Xaa Phe Gly Ile Leu Leu Ile Val Ser Ala  
1 5 10 15  
Thr Leu Cys Phe Gly Xaa Leu Xaa Gly Phe Leu Met Thr Leu Pro Gln  
20 25 30  
Lys Arg Lys Ser Phe Gln Ser Lys Ser Phe Val Arg Leu Lys Asp Val  
35 40 45  
Thr Ala Tyr Met Trp Glu Lys Val Leu Thr Phe Leu Arg Leu Glu Thr  
50 55 60

Pro	Lys	Leu	Glu	Glu	Ala	Glu	Met	Val	Glu	Asn	His	Asn	Tyr	Tyr	Leu
65					70					75					80
Asp	Glu	Phe	Ala	Asn	Leu	Leu	Asp	Glu	Leu	Leu	Met	Lys	Ile	Asn	Gly
				85					90					95	
Leu	Ser	Asp	Ser	Leu	Gln	Leu	Pro	Leu	Leu	Glu	Lys	Thr	Ser	Xaa	Asn
			100					105					110		

Thr Gly

<210> 125  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (81)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 125															
Met	Asp	Ile	Leu	Met	Leu	Leu	Leu	Leu	Leu	Cys	Val	Ile	Tyr	Gly	Arg
1				5					10					15	
Phe	Ser	Gln	Asp	Glu	Tyr	Ser	Leu	Asn	Gln	Ala	Ile	Arg	Lys	Glu	Phe
			20					25					30		
Thr	Arg	Asn	Ala	Arg	Asn	Cys	Leu	Gly	Gly	Leu	Arg	Asn	Ile	Ala	Asp
		35					40					45			
Trp	Trp	Asp	Trp	Ser	Leu	Thr	Thr	Leu	Leu	Asp	Gly	Leu	Tyr	Pro	Gly
	50					55					60				
Gly	Thr	Pro	Ser	Ala	Arg	Val	Pro	Gly	Ala	Ser	Ala	Trp	Ser	Ser	Trp
65					70					75					80
Xaa	Lys	Met	Xaa	Thr											
				85											

<210> 126  
 <211> 561  
 <212> PRT  
 <213> Homo sapiens

<400> 126

Met	Asp	Ile	Leu	Met	Leu	Leu	Leu	Leu	Leu	Cys	Val	Ile	Tyr	Gly	Arg	1	5	10	15
Phe	Ser	Gln	Asp	Glu	Tyr	Ser	Leu	Asn	Gln	Ala	Ile	Arg	Lys	Glu	Phe	20	25	30	
Thr	Arg	Asn	Ala	Arg	Asn	Cys	Leu	Gly	Gly	Leu	Arg	Asn	Ile	Ala	Asp	35	40	45	
Trp	Trp	Asp	Trp	Ser	Leu	Thr	Thr	Leu	Leu	Asp	Gly	Leu	Tyr	Pro	Gly	50	55	60	
Gly	Thr	Pro	Ser	Ala	Arg	Val	Pro	Gly	Ala	Gln	Pro	Gly	Ala	Leu	Gly	65	70	75	80
Gly	Lys	Cys	Tyr	Leu	Ile	Gly	Ser	Ser	Val	Ile	Arg	Gln	Leu	Lys	Val	85	90	95	
Phe	Pro	Arg	His	Leu	Cys	Lys	Pro	Pro	Arg	Pro	Phe	Ser	Ala	Leu	Ile	100	105	110	
Glu	Asp	Ser	Ile	Pro	Thr	Cys	Ser	Pro	Glu	Val	Gly	Gly	Pro	Glu	Asn	115	120	125	
Pro	Tyr	Leu	Ile	Asp	Pro	Glu	Asn	Gln	Asn	Val	Thr	Leu	Asn	Gly	Pro	130	135	140	
Gly	Gly	Cys	Gly	Thr	Arg	Glu	Asp	Cys	Val	Leu	Ser	Leu	Gly	Arg	Thr	145	150	155	160
Arg	Thr	Glu	Ala	His	Thr	Ala	Leu	Ser	Arg	Leu	Arg	Ala	Ser	Met	Trp	165	170	175	
Ile	Asp	Arg	Ser	Thr	Arg	Ala	Val	Ser	Val	His	Phe	Thr	Leu	Tyr	Asn	180	185	190	
Pro	Pro	Thr	Gln	Leu	Phe	Thr	Ser	Val	Ser	Leu	Arg	Val	Glu	Ile	Leu	195	200	205	
Pro	Thr	Gly	Ser	Leu	Val	Pro	Ser	Ser	Leu	Val	Glu	Ser	Phe	Ser	Ile	210	215	220	
Phe	Arg	Ser	Asp	Ser	Ala	Leu	Gln	Tyr	His	Leu	Met	Leu	Pro	Gln	Leu	225	230	235	240
Val	Phe	Leu	Ala	Leu	Ser	Leu	Ile	His	Leu	Cys	Val	Gln	Leu	Tyr	Arg	245	250	255	
Met	Met	Asp	Lys	Gly	Val	Leu	Ser	Tyr	Trp	Arg	Lys	Pro	Arg	Asn	Trp	260	265	270	
Leu	Glu	Leu	Ser	Val	Val	Gly	Val	Ser	Leu	Thr	Tyr	Tyr	Ala	Val	Ser	275	280	285	
Gly	His	Leu	Val	Thr	Leu	Ala	Gly	Asp	Val	Thr	Asn	Gln	Phe	His	Arg	290	295	300	

Gly	Leu	Cys	Arg	Ala	Phe	Met	Asp	Leu	Thr	Leu	Met	Ala	Ser	Trp	Asn	305	310	315	320
Gln	Arg	Ala	Arg	Trp	Leu	Arg	Gly	Ile	Leu	Leu	Phe	Leu	Phe	Thr	Leu	325	330	335	
Lys	Cys	Val	Tyr	Leu	Pro	Gly	Ile	Gln	Asn	Thr	Met	Ala	Ser	Cys	Ser	340	345	350	
Ser	Met	Met	Arg	His	Ser	Leu	Pro	Ser	Ile	Phe	Val	Ala	Gly	Leu	Val	355	360	365	
Gly	Ala	Leu	Met	Leu	Ala	Ala	Leu	Ser	His	Leu	His	Arg	Phe	Leu	Leu	370	375	380	
Ser	Met	Trp	Val	Leu	Pro	Pro	Gly	Thr	Phe	Thr	Asp	Ala	Phe	Pro	Gly	385	390	395	400
Leu	Leu	Phe	His	Phe	Pro	Arg	Arg	Ser	Gln	Lys	Asp	Cys	Leu	Leu	Gly	405	410	415	
Leu	Ser	Lys	Ser	Asp	Gln	Arg	Ala	Met	Ala	Cys	Tyr	Phe	Gly	Ile	Leu	420	425	430	
Leu	Ile	Val	Ser	Ala	Thr	Leu	Cys	Phe	Gly	Met	Leu	Arg	Gly	Phe	Leu	435	440	445	
Met	Thr	Leu	Pro	Gln	Lys	Arg	Lys	Ser	Phe	Gln	Ser	Lys	Ser	Phe	Val	450	455	460	
Arg	Leu	Lys	Asp	Val	Thr	Ala	Tyr	Met	Trp	Glu	Lys	Val	Leu	Thr	Phe	465	470	475	480
Leu	Arg	Leu	Glu	Thr	Pro	Lys	Leu	Glu	Glu	Ala	Glu	Met	Val	Glu	Asn	485	490	495	
His	Asn	Tyr	Tyr	Leu	Asp	Glu	Phe	Ala	Asn	Leu	Leu	Asp	Glu	Leu	Leu	500	505	510	
Met	Lys	Ile	Asn	Gly	Leu	Ser	Asp	Ser	Leu	Gln	Leu	Pro	Leu	Leu	Glu	515	520	525	
Lys	Thr	Ser	Asn	Asn	Thr	Gly	Glu	Ala	Arg	Thr	Glu	Glu	Ser	Pro	Leu	530	535	540	
Val	Asp	Ile	Ser	Ser	Tyr	Gln	Ala	Ala	Glu	Pro	Ala	Asp	Ile	Lys	Asp	545	550	555	560

Phe

<210> 127  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens



<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (81)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 127  
 Xaa His Lys Thr Phe Pro Ser Glu Gly Ser Ser Cys Leu Ser Ser Val  
   1                  5                  10                  15  
 Thr Leu Xaa Thr Thr Ala Gln Ala Tyr Phe Thr Leu Pro Pro Pro Thr  
                   20                  25                  30  
 His His Cys Pro Leu Ser Ala Thr Lys Pro His Tyr Ser Ser Asn Asp  
           35                  40                  45  
 Ala Ser Leu Val Ser Gly Lys Pro Ile Trp Cys Thr Lys Met Leu Cys  
   50                  55                  60  
 Asn Thr Lys Trp Leu Leu Pro Leu Ile Leu Leu Asn Asn Val Asn Ser  
   65                  70                  75                  80  
 Xaa Arg Ile Asn Phe Met Leu Cys  
                   85

<210> 128  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 128  
 Met Trp Lys Val Leu Arg Pro Ser Leu Phe Thr Ala Gly Leu Phe Thr  
   1                  5                  10                  15  
 Ala Ser Phe Phe Tyr Ser Asp Leu Lys Val Ser Thr Glu Leu Met Lys  
           20                  25                  30  
 Leu Gln His Met Val Phe Lys Ser Phe Pro Leu Lys Cys Thr Leu Glu  
   35                  40                  45  
 Asn Trp Val Pro Gln Pro His Tyr  
   50                  55

<210> 129  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 129  
Met Trp Lys Val Leu Arg Pro Ser Leu Phe Thr Ala Gly Leu Phe Thr  
1 5 10 15  
Ala Ser Phe Phe Tyr Ser Asp Leu Lys Val Ser Thr Glu Leu Met Lys  
20 25 30  
Leu Gln His Met Val Phe Lys Ser Phe Pro Leu Lys Cys Thr Leu Glu  
35 40 45  
Asn Trp Val Pro Gln Pro Gln Leu Leu Asn  
50 55

<210> 130  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 130  
Cys Leu Glu Thr Phe Trp Ser Leu Tyr Leu Gly Gly Trp Gly Met Val  
1 5 10 15  
Gly Cys Val Cys Tyr Trp His Pro Val Asn Arg Ser Gln Gly Cys Arg  
20 25 30

<210> 131  
<211> 199  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (142)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 131  
Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu  
1 5 10 15  
Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr  
20 25 30  
Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr  
35 40 45

Glu Asp Asp Leu Thr Asp Ala Arg Glu Ala Gly Phe Gln Val Lys Ala  
 50 55 60  
 Tyr Thr Phe Ser Glu Pro Phe His Leu Ile Val Ser Tyr Asp Trp Leu  
 65 70 75 80  
 Ile Leu Gln Gly Pro Ala Lys Pro Val Phe Glu Gly Asp Leu Leu Val  
 85 90 95  
 Leu Arg Cys Gln Ala Trp Gln Asp Trp Pro Leu Thr Gln Val Thr Phe  
 100 105 110  
 Tyr Arg Asp Gly Ser Ala Leu Gly Pro Pro Gly Pro Asn Arg Glu Phe  
 115 120 125  
 Ser Ile Thr Val Val Gln Lys Ala Asp Ser Gly His Tyr Xaa Cys Ser  
 130 135 140  
 Gly Ile Phe Gln Ser Pro Gly Pro Gly Ile Pro Glu Thr Ala Ser Val  
 145 150 155 160  
 Val Ala Ile Thr Val Gln Glu Leu Phe Pro Ala Pro Ile Leu Leu Leu  
 165 170 175  
 Gln Gly Trp Lys Asp Ser Ala Lys Gln Gly Gly Ser Pro Gln Asn Ser  
 180 185 190  
 Arg Ser Pro Gln Leu Gln Lys  
 195

<210> 132  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 132  
 Ser Trp  
 1

<210> 133  
 <211> 359  
 <212> PRT  
 <213> Homo sapiens

<400> 133  
 Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu  
 1 5 10 15  
 Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr  
 20 25 30  
 Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr  
 35 40 45

Glu	Asp	Asp	Leu	Thr	Asp	Ala	Arg	Glu	Ala	Gly	Phe	Gln	Val	Lys	Ala
	50					55					60				
Tyr	Thr	Phe	Ser	Glu	Pro	Phe	His	Leu	Ile	Val	Ser	Tyr	Asp	Trp	Leu
65					70					75					80
Ile	Leu	Gln	Gly	Pro	Ala	Lys	Pro	Val	Phe	Glu	Gly	Asp	Leu	Leu	Val
				85					90					95	
Leu	Arg	Cys	Gln	Ala	Trp	Gln	Asp	Trp	Pro	Leu	Thr	Gln	Val	Thr	Phe
			100					105					110		
Tyr	Arg	Asp	Gly	Ser	Ala	Leu	Gly	Pro	Pro	Gly	Pro	Asn	Arg	Glu	Phe
		115					120					125			
Ser	Ile	Thr	Val	Val	Gln	Lys	Ala	Asp	Ser	Gly	His	Tyr	His	Cys	Ser
	130					135					140				
Gly	Ile	Phe	Gln	Ser	Pro	Gly	Pro	Gly	Ile	Pro	Glu	Thr	Ala	Ser	Val
145					150					155					160
Val	Ala	Ile	Thr	Val	Gln	Glu	Leu	Phe	Pro	Ala	Pro	Ile	Leu	Arg	Ala
				165					170					175	
Val	Pro	Ser	Ala	Glu	Pro	Gln	Ala	Gly	Gly	Pro	Met	Thr	Leu	Ser	Cys
			180					185					190		
Gln	Thr	Lys	Leu	Pro	Leu	Gln	Arg	Ser	Ala	Ala	Arg	Leu	Leu	Phe	Ser
		195					200					205			
Phe	Tyr	Lys	Asp	Gly	Arg	Ile	Val	Gln	Ser	Arg	Gly	Leu	Ser	Ser	Glu
	210					215					220				
Phe	Gln	Ile	Pro	Thr	Ala	Ser	Glu	Asp	His	Ser	Gly	Ser	Tyr	Trp	Cys
225					230					235					240
Glu	Ala	Ala	Thr	Glu	Asp	Asn	Gln	Val	Trp	Lys	Gln	Ser	Pro	Gln	Leu
				245					250					255	
Glu	Ile	Arg	Val	Gln	Gly	Ala	Ser	Ser	Ser	Ala	Ala	Pro	Pro	Thr	Leu
			260					265					270		
Asn	Pro	Ala	Pro	Gln	Lys	Ser	Ala	Ala	Pro	Gly	Thr	Ala	Pro	Glu	Glu
		275					280					285			
Ala	Pro	Gly	Pro	Leu	Pro	Pro	Pro	Pro	Thr	Pro	Ser	Ser	Glu	Asp	Pro
	290					295					300				
Gly	Phe	Ser	Ser	Pro	Leu	Gly	Met	Pro	Asp	Pro	His	Leu	Tyr	His	Gln
305					310					315					320
Met	Gly	Leu	Leu	Leu	Lys	His	Met	Gln	Asp	Val	Arg	Val	Leu	Leu	Gly
				325					330					335	
His	Leu	Leu	Met	Glu	Leu	Arg	Glu	Leu	Ser	Gly	His	Arg	Lys	Pro	Gly
			340					345					350		

Thr Thr Lys Ala Thr Ala Glu  
355

<210> 134  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 134  
Met Ser Arg Leu Leu  
1 5

<210> 135  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 135  
Met Ser Arg Leu Leu  
1 5

<210> 136  
<211> 63  
<212> PRT  
<213> Homo sapiens

<400> 136  
Phe Leu His Val Phe Thr Ser Val Glu Leu Leu Arg Leu Ser Ser Pro  
1 5 10 15  
Pro Leu Pro Lys Pro Lys Tyr Lys Arg Lys Ser Ser Pro Leu Leu Met  
20 25 30  
Ala Glu Arg Ile Leu Ser Val Ser Gly Leu Phe Gly His Arg Leu Asn  
35 40 45  
Lys Gly Leu Leu Ile His Pro Lys Lys Lys Lys Lys Lys Leu Glu  
50 55 60

<210> 137  
<211> 438  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 137

Leu	Thr	Ile	Thr	Val	His	Asp	Pro	Asn	Ala	Ala	Gln	Trp	Tyr	Tyr	Gly	
1				5					10						15	
Met	Ser	Trp	Gly	Leu	Arg	Leu	Tyr	Ile	Pro	Gly	Phe	Asp	Val	Gly	Thr	
			20					25					30			
Met	Phe	Thr	Ile	Gln	Lys	Lys	Ile	Leu	Xaa	Ser	Trp	Ser	Pro	Pro	Lys	
		35					40					45				
Pro	Ile	Arg	Pro	Leu	Thr	Asp	Leu	Gly	Asp	Pro	Ile	Phe	Gln	Lys	His	
	50					55					60					
Pro	Asp	Lys	Val	Asp	Leu	Thr	Val	Pro	Gln	Pro	Phe	Leu	Val	Pro	Arg	
65					70				75						80	
Pro	Gln	Leu	Gln	Gln	Gln	His	Leu	Gln	Pro	Ser	Leu	Met	Ser	Ile	Leu	
			85					90						95		
Gly	Gly	Val	His	His	Leu	Leu	Asn	Leu	Thr	Gln	Pro	Lys	Leu	Ala	Gln	
			100					105					110			
Asp	Cys	Trp	Leu	Cys	Leu	Lys	Ala	Lys	Pro	Pro	Tyr	Tyr	Val	Gly	Leu	
		115					120					125				
Gly	Val	Glu	Ala	Thr	Leu	Lys	Arg	Gly	Pro	Leu	Ser	Cys	His	Thr	Arg	
	130					135					140					
Pro	Arg	Ala	Leu	Thr	Ile	Gly	Asp	Val	Ser	Gly	Asn	Ala	Ser	Cys	Leu	
145					150					155					160	
Ile	Ser	Thr	Gly	Tyr	Asn	Leu	Ser	Ala	Ser	Pro	Phe	Gln	Ala	Thr	Cys	
			165						170					175		
Asn	Gln	Ser	Leu	Leu	Thr	Tyr	Ile	Ser	Thr	Ser	Val	Ser	Tyr	Gln	Ala	
			180					185					190			
Pro	Asn	Asn	Thr	Trp	Leu	Ala	Cys	Thr	Ser	Gly	Leu	Thr	Arg	Cys	Ile	
		195					200					205				
Asn	Gly	Thr	Glu	Pro	Gly	Pro	Leu	Leu	Cys	Val	Leu	Val	His	Val	Leu	
	210					215					220					
Pro	Gln	Val	Tyr	Val	Tyr	Ser	Gly	Pro	Glu	Gly	Arg	Gln	Leu	Ile	Ala	
225					230					235					240	
Pro	Pro	Glu	Leu	His	Pro	Arg	Leu	His	Gln	Ala	Val	Pro	Leu	Leu	Val	
			245						250					255		
Pro	Leu	Leu	Ala	Gly	Leu	Ser	Ile	Ala	Gly	Ser	Ala	Ala	Ile	Gly	Thr	
		260						265					270			
Ala	Ala	Leu	Val	Gln	Gly	Glu	Thr	Gly	Leu	Ile	Ser	Leu	Ser	Gln	Gln	
		275					280					285				
Val	Asp	Ala	Asp	Phe	Ser	Asn	Leu	Gln	Ser	Ala	Ile	Asp	Ile	Leu	His	

290		295		300
Ser Gln Val Glu Ser Leu Ala Glu Val Val Leu Gln Asn Cys Arg Cys				
305		310		315 320
Leu Asp Leu Leu Phe Leu Ser Gln Gly Gly Leu Cys Ala Ala Leu Gly				
		325		330 335
Glu Ser Cys Cys Phe Tyr Ala Asn Gln Ser Gly Val Ile Lys Gly Thr				
		340		345 350
Val Lys Lys Val Arg Glu Asn Leu Asp Arg His Gln Gln Glu Arg Glu				
		355		360 365
Asn Asn Ile Pro Trp Tyr Gln Ser Met Phe Asn Trp Asn Pro Trp Leu				
		370		375 380
Thr Thr Leu Ile Thr Gly Leu Ala Gly Pro Leu Leu Ile Leu Leu Leu				
385		390		395 400
Ser Leu Ile Phe Gly Pro Cys Ile Leu Asn Ser Phe Leu Asn Phe Ile				
		405		410 415
Lys Gln Arg Ile Ala Ser Val Lys Leu Thr Tyr Leu Lys Thr Gln Tyr				
		420		425 430
Asp Thr Leu Val Asn Asn				
		435		

<210> 138  
 <211> 438  
 <212> PRT  
 <213> Homo sapiens

<400> 138
Leu Thr Ile Thr Val His Asp Pro Asn Ala Ala Gln Trp Tyr Tyr Gly
1 5 10 15
Met Ser Trp Gly Leu Arg Leu Tyr Ile Pro Gly Phe Asp Val Gly Thr
20 25 30
Met Phe Thr Ile Gln Lys Lys Ile Leu Val Ser Trp Ser Pro Pro Lys
35 40 45
Pro Ile Arg Pro Leu Thr Asp Leu Gly Asp Pro Ile Phe Gln Lys His
50 55 60
Pro Asp Lys Val Asp Leu Thr Val Pro Gln Pro Phe Leu Val Pro Arg
65 70 75 80
Pro Gln Leu Gln Gln Gln His Leu Gln Pro Ser Leu Met Ser Ile Leu
85 90 95
Gly Gly Val His His Leu Leu Asn Leu Thr Gln Pro Lys Leu Ala Gln
100 105 110

Asp	Cys	Trp	Leu	Cys	Leu	Lys	Ala	Lys	Pro	Pro	Tyr	Tyr	Val	Gly	Leu	115	120	125
Gly	Val	Glu	Ala	Thr	Leu	Lys	Arg	Gly	Pro	Leu	Ser	Cys	His	Thr	Arg	130	135	140
Pro	Arg	Ala	Leu	Thr	Ile	Gly	Asp	Val	Ser	Gly	Asn	Ala	Ser	Cys	Leu	145	150	155
Ile	Ser	Thr	Gly	Tyr	Asn	Leu	Ser	Ala	Ser	Pro	Phe	Gln	Ala	Thr	Cys	165	170	175
Asn	Gln	Ser	Leu	Leu	Thr	Tyr	Ile	Ser	Thr	Ser	Val	Ser	Tyr	Gln	Ala	180	185	190
Pro	Asn	Asn	Thr	Trp	Leu	Ala	Cys	Thr	Ser	Gly	Leu	Thr	Arg	Cys	Ile	195	200	205
Asn	Gly	Thr	Glu	Pro	Gly	Pro	Leu	Leu	Cys	Val	Leu	Val	His	Val	Leu	210	215	220
Pro	Gln	Val	Tyr	Val	Tyr	Ser	Gly	Pro	Glu	Gly	Arg	Gln	Leu	Ile	Ala	225	230	235
Pro	Pro	Glu	Leu	His	Pro	Arg	Leu	His	Gln	Ala	Val	Pro	Leu	Leu	Val	245	250	255
Pro	Leu	Leu	Ala	Gly	Leu	Ser	Ile	Ala	Gly	Ser	Ala	Ala	Ile	Gly	Thr	260	265	270
Ala	Ala	Leu	Val	Gln	Gly	Glu	Thr	Gly	Leu	Ile	Ser	Leu	Ser	Gln	Gln	275	280	285
Val	Asp	Ala	Asp	Phe	Ser	Asn	Leu	Gln	Ser	Ala	Ile	Asp	Ile	Leu	His	290	295	300
Ser	Gln	Val	Glu	Ser	Leu	Ala	Glu	Val	Val	Leu	Gln	Asn	Cys	Arg	Cys	305	310	315
Leu	Asp	Leu	Leu	Phe	Leu	Ser	Gln	Gly	Gly	Leu	Cys	Ala	Ala	Leu	Gly	325	330	335
Glu	Ser	Cys	Cys	Phe	Tyr	Ala	Asn	Gln	Ser	Gly	Val	Ile	Lys	Gly	Thr	340	345	350
Val	Lys	Lys	Val	Arg	Glu	Asn	Leu	Asp	Arg	His	Gln	Gln	Glu	Arg	Glu	355	360	365
Asn	Asn	Ile	Pro	Trp	Tyr	Gln	Ser	Met	Phe	Asn	Trp	Asn	Pro	Trp	Leu	370	375	380
Thr	Thr	Leu	Ile	Thr	Gly	Leu	Ala	Gly	Pro	Leu	Leu	Ile	Leu	Leu	Leu	385	390	395
Ser	Leu	Ile	Phe	Gly	Pro	Cys	Ile	Leu	Asn	Ser	Phe	Leu	Asn	Phe	Ile	405	410	415



Lys Gln Arg Ile Ala Ser Val Lys Leu Thr Tyr Leu Lys Thr Gln Tyr  
420 425 430

Asp Thr Leu Val Asn Asn  
435

<210> 139  
<211> 62  
<212> PRT  
<213> Homo sapiens

<400> 139  
Met Phe Cys Arg Asn Trp Arg Cys Glu Phe Met Met Leu Ser His Asn  
1 5 10 15  
Thr Ala Val Met Ile Cys Ser Phe Ser Gln Asn Asp Phe His Ala Ala  
20 25 30  
Leu Cys Cys Ser Ser Val Ser Glu Leu Pro Tyr Leu Phe Leu Val Cys  
35 40 45  
Ser Thr Tyr Lys Cys Ser Cys His Ala Val Leu Phe Phe Cys  
50 55 60

<210> 140  
<211> 62  
<212> PRT  
<213> Homo sapiens

<400> 140  
Met Phe Cys Arg Asn Trp Arg Cys Glu Phe Met Met Leu Ser His Asn  
1 5 10 15  
Thr Ala Val Met Ile Cys Ser Phe Ser Gln Asn Asp Phe His Ala Ala  
20 25 30  
Leu Cys Cys Ser Ser Val Ser Glu Leu Pro Tyr Leu Phe Leu Val Cys  
35 40 45  
Ser Thr Tyr Lys Cys Ser Cys His Ala Val Leu Phe Phe Cys  
50 55 60

<210> 141  
<211> 76  
<212> PRT  
<213> Homo sapiens

<400> 141  
Ile Asn Phe Thr Tyr Lys Arg Leu Ser Leu Asp Phe Ile Tyr Ile Tyr  
1 5 10 15

Met Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Tyr  
20 25 30

Leu Lys Arg Thr Cys Ala Ser Ile Lys Gly Asn Lys Met Arg Glu Tyr  
35 40 45

Ile Ile Asp Phe Val Lys Ser Lys Tyr Leu Asn Tyr Gly Phe Ser Ile  
50 55 60

Phe Lys Asn Ser Cys Ser Phe Cys Thr Tyr Phe Phe  
65 70 75

<210> 142  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 142  
Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu  
1 5 10 15

Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys Phe Gln Thr Ser  
20 25 30

Trp Pro Lys Thr Leu Val Glu Glu Gln Asn  
35 40

<210> 143  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 143  
Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu  
1 5 10 15

Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys Phe Gln Thr Ser  
20 25 30

Trp Pro Lys Thr Leu Val Glu Glu Gln Asn  
35 40

<210> 144  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 144  
Ala Trp Ile Gln Cys Thr Leu Leu Leu Tyr Pro Arg Arg Thr Ser Gln  
1 5 10 15

Gly Ile His Gln Val Pro Gly  
20

<210> 145  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 145  
Leu Leu Met Arg Gln Pro Trp Val Gly Gln Gly Trp Gly Pro Val Val  
1 5 10 15

Glu Glu Thr Cys  
20

<210> 146  
<211> 322  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (131)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (185)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (218)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (220)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (250)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (312)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 146  
Met Ala Leu Pro Pro Gly Pro Ala Ala Leu Arg His Thr Leu Leu Leu

1	5	10	15
Leu Pro Ala	Leu Leu Ser Ser	Gly Trp Gly Glu Leu Glu	Pro Gln Ile
20		25	30
Asp Gly Gln	Thr Trp Ala Glu Arg	Ala Leu Arg Glu Asn	Glu Arg His
35		40	45
Ala Phe Thr	Cys Arg Val Ala Gly	Gly Pro Gly Thr	Pro Arg Leu Ala
50		55	60
Trp Tyr Leu	Asp Gly Gln Leu Gln	Glu Ala Ser Thr	Ser Arg Leu Leu
65		70	75
Ser Val Gly	Gly Glu Ala Phe Ser	Gly Gly Thr Ser	Thr Phe Thr Val
	85	90	95
Thr Ala His	Arg Ala Gln His Glu	Leu Asn Cys Ser	Leu Gln Asp Pro
	100	105	110
Arg Ser Gly	Arg Ser Ala Asn Ala	Ser Val Ile Leu	Asn Val Gln Phe
	115	120	125
Lys Pro Xaa	Ile Ala Gln Val Gly	Ala Lys Tyr Gln	Glu Ala Gln Gly
	130	135	140
Pro Gly Leu	Leu Val Val Leu Phe	Ala Leu Val Arg	Ala Asn Pro Pro
145		150	155
Ala Asn Val	Thr Trp Ile Asp	Gln Asp Gly Pro	Val Thr Val Asn Thr
	165	170	175
Ser Asp Phe	Leu Val Leu Asp	Ala Xaa Asn Tyr	Pro Trp Leu Thr Asn
	180	185	190
His Thr Val	Gln Leu Gln Leu Arg	Ser Leu Ala His	Asn Leu Ser Val
	195	200	205
Val Ala Thr	Asn Asp Val Gly	Val Thr Xaa Ala	Xaa Leu Pro Ala Pro
	210	215	220
Gly Pro Ser	Arg His Pro Ser	Leu Ile Ser Ser	Asp Ser Asn Asn Leu
225		230	235
Lys Leu Asn	Asn Val Arg Leu Pro	Arg Xaa Asn Met	Ser Leu Pro Ser
	245	250	255
Asn Leu Gln	Leu Asn Asp Leu Thr	Pro Asp Ser Arg	Ala Val Lys Pro
	260	265	270
Ala Asp Arg	Gln Met Ala Gln	Asn Asn Ser Arg	Pro Glu Leu Leu Asp
	275	280	285
Pro Glu Pro	Gly Gly Leu Leu Thr	Ser Gln Gly Phe	Ile Arg Leu Pro
	290	295	300
Val Leu Gly	Tyr Ile Tyr Arg	Xaa Ser Ser Val	Ser Ser Asp Glu Ile

305 310 315 320

Trp Leu

<210> 147  
<211> 322  
<212> PRT  
<213> Homo sapiens

<400> 147

Met	Ala	Leu	Pro	Pro	Gly	Pro	Ala	Ala	Leu	Arg	His	Thr	Leu	Leu	Leu
1				5					10					15	
Leu	Pro	Ala	Leu	Leu	Ser	Ser	Gly	Trp	Gly	Glu	Leu	Glu	Pro	Gln	Ile
			20					25					30		
Asp	Gly	Gln	Thr	Trp	Ala	Glu	Arg	Ala	Leu	Arg	Glu	Asn	Glu	Arg	His
		35					40					45			
Ala	Phe	Thr	Cys	Arg	Val	Ala	Gly	Gly	Pro	Gly	Thr	Pro	Arg	Leu	Ala
	50					55					60				
Trp	Tyr	Leu	Asp	Gly	Gln	Leu	Gln	Glu	Ala	Ser	Thr	Ser	Arg	Leu	Leu
65					70					75					80
Ser	Val	Gly	Gly	Glu	Ala	Phe	Ser	Gly	Gly	Thr	Ser	Thr	Phe	Thr	Val
				85					90					95	
Thr	Ala	His	Arg	Ala	Gln	His	Glu	Leu	Asn	Cys	Ser	Leu	Gln	Asp	Pro
			100					105					110		
Arg	Ser	Gly	Arg	Ser	Ala	Asn	Ala	Ser	Val	Ile	Leu	Asn	Val	Gln	Phe
		115					120					125			
Lys	Pro	Glu	Ile	Ala	Gln	Val	Gly	Ala	Lys	Tyr	Gln	Glu	Ala	Gln	Gly
	130					135					140				
Pro	Gly	Leu	Leu	Val	Val	Leu	Phe	Ala	Leu	Val	Arg	Ala	Asn	Pro	Pro
145					150					155					160
Ala	Asn	Val	Thr	Trp	Ile	Asp	Gln	Asp	Gly	Pro	Val	Thr	Val	Asn	Thr
				165					170					175	
Ser	Asp	Phe	Leu	Val	Leu	Asp	Ala	Gln	Asn	Tyr	Pro	Trp	Leu	Thr	Asn
			180					185					190		
His	Thr	Val	Gln	Leu	Gln	Leu	Arg	Ser	Leu	Ala	His	Asn	Leu	Ser	Val
		195					200					205			
Val	Ala	Thr	Asn	Asp	Val	Gly	Val	Thr	Ser	Ala	Ser	Leu	Pro	Ala	Pro
	210					215					220				
Gly	Pro	Ser	Arg	His	Pro	Ser	Leu	Ile	Ser	Ser	Asp	Ser	Asn	Asn	Leu
225					230					235					240

Lys Leu Asn Asn Val Arg Leu Pro Arg Glu Asn Met Ser Leu Pro Ser  
245 250 255

Asn Leu Gln Leu Asn Asp Leu Thr Pro Asp Ser Arg Ala Val Lys Pro  
260 265 270

Ala Asp Arg Gln Met Ala Gln Asn Asn Ser Arg Pro Glu Leu Leu Asp  
275 280 285

Pro Glu Pro Gly Gly Leu Leu Thr Ser Gln Gly Phe Ile Arg Leu Pro  
290 295 300

Val Leu Gly Tyr Ile Tyr Arg Val Ser Ser Val Ser Ser Asp Glu Ile  
305 310 315 320

Trp Leu

<210> 148  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 148  
Met Ile Ser Leu Leu Trp Thr Leu Lys Leu Phe Ser Arg Asn Leu Asp  
1 5 10 15  
Tyr Ser Gln Lys Arg Lys Ser Trp Cys  
20 25

<210> 149  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 149  
Met Ile Ser Leu Leu Trp Thr Leu Lys Leu Phe Ser Arg Asn Leu Asp  
1 5 10 15  
Tyr Ser Gln Lys Arg Lys Ser Trp Cys  
20 25

<210> 150  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 150  
Thr Lys Ser Ser Asp Phe Gly Gly Gly Cys Arg Asn Ala Ser Ser Ser  
1 5 10 15

Cys Cys

<210> 151  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 151  
Gly Cys Phe Lys Ile Val Leu Phe Phe Lys Leu Val Ile Phe Ala Lys  
1 5 10 15  
Leu Phe Val Phe Val Val Ser Ile Asn Met  
20 25

<210> 152  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 152  
Thr Lys Ser Ser Asp Phe Gly Gly Gly Cys Arg Asn Ala Ser Ser Ser  
1 5 10 15

Cys Cys

<210> 153  
<211> 143  
<212> PRT  
<213> Homo sapiens

<400> 153  
Met Val Cys Gly Trp Ile Ile Tyr Gly Ser Phe Ile Tyr Leu Ser Ser  
1 5 10 15  
His Cys Ala Thr Thr Phe Lys Glu Asp Gly Leu Trp Thr Tyr Leu Asn  
20 25 30  
Gln Ile Val Ala Cys Ser Pro Trp Val Leu Tyr Ile Leu Met Leu Ala  
35 40 45  
Thr Phe His Phe Ser Trp Ser Thr Phe Leu Leu Leu Asn Gln Leu Phe  
50 55 60  
Gln Ile Ala Phe Leu Gly Leu Thr Ser His Glu Arg Ile Ser Leu Gln  
65 70 75 80  
Lys Gln Ser Lys His Met Lys Gln Thr Leu Ser Leu Arg Lys Thr Pro  
85 90 95

Tyr	Asn	Leu	Gly	Phe	Met	Gln	Asn	Leu	Ala	Asp	Phe	Phe	Gln	Cys	Gly
			100					105					110		
Cys	Phe	Gly	Leu	Val	Lys	Pro	Cys	Val	Val	Asp	Trp	Thr	Ser	Gln	Tyr
		115					120					125			
Thr	Met	Val	Phe	His	Pro	Ala	Arg	Glu	Lys	Val	Leu	Arg	Ser	Val	
	130					135					140				

<210> 154  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 154															
Trp	Glu	Ser	Leu	Gly	Leu	Met	Phe	Leu	Cys	Gly	Pro	His	Leu	Thr	Arg
1				5					10					15	
Leu	Leu	Leu	Phe	Leu	Phe	Thr	Leu	Gly	Phe	Cys	Ala	Phe	Ile	Asn	Ile
			20					25					30		
Val	Leu	Ser	Phe	Pro	Leu	Val	Cys	Ile	Pro	Phe	Cys	Leu	Gly	Arg	Leu
		35					40					45			
Tyr	Phe	Leu	Leu	Leu	Thr	Glu	Lys	Pro	His	Gln	Glu	Ala	Cys	Pro	Gly
	50					55					60				
Asp	Glu	Leu	Gly	Thr	Gly	His	Leu	His	Ile	Gly	Leu	Gly	Ala	Val	Arg
65					70					75					80
Leu	Gln	Gly	Pro	Asp	Asn	Met	Arg	Asn	Glu	Xaa	Ser	Xaa	Ile	Val	Val
				85					90					95	
Gly	Asp	Xaa	Gly	Leu											
			100												

<210> 155



<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 155  
Met Leu Asn Asp Gly Lys Val Trp Val Ser Cys Phe Cys Val Val Leu  
1 5 10 15  
Thr Ser Leu Asp Phe Cys Ser Phe Cys Ser Leu Trp Ala Ser Val Leu  
20 25 30  
Ser Leu Ile  
35

<210> 156  
<211> 114  
<212> PRT  
<213> Homo sapiens

<400> 156  
Gly Pro Arg Arg Leu Ser Gly Thr His Ser Arg Gly Ser Ser Pro Asp  
1 5 10 15  
Pro Cys Ser Cys Val Val Trp Ala Ser Ala Asn Ser Trp Ala Thr Cys  
20 25 30  
Val Tyr Leu Glu Pro Gly Ser Pro Leu Ser Ser Phe Pro Cys Ala Tyr  
35 40 45  
Ser Gly Thr Cys Leu Val Arg Val Trp Gln Glu Asn Gly Ala Phe Asn  
50 55 60  
Asn Leu Pro Ser Phe Ile Pro Trp Ser Leu Leu His Ala Arg Thr Cys  
65 70 75 80  
Ala His Leu Phe Gly Ala Leu Ser His Leu Ile Asp Ser Arg Pro Gly  
85 90 95  
Ala Val Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Asp Glu Ala Gly  
100 105 110  
Gly Ser

<210> 157  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 157  
Met Cys Val Ser Pro Val Ser Val Cys Pro Phe Leu Pro Ser Leu His  
1 5 10 15

Phe Ile Asn Asn Trp Cys Asn Val Ser Ser  
20 25

<210> 158  
<211> 106  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 158  
Gly Ser Asp Gly Pro Arg Glu Arg Ala Pro Val Ala Trp Leu Ser His  
1 5 10 15  
Ser Ile Leu Ser Leu Ile Leu Asn Lys Tyr Phe Leu Trp Gly Phe Phe  
20 25 30  
Phe Phe Leu Xaa Ala Val Val Cys Phe Lys Leu Thr Thr Trp Lys Lys  
35 40 45  
His Leu Gly Tyr Leu Trp Phe Ser Cys Leu Val Pro Ala Ser Thr Pro  
50 55 60  
Thr Pro Phe Glu Ser Gly Asp Ser Phe Phe Cys Val Glu Thr Arg Trp  
65 70 75 80  
Pro Arg Gln Glu Val Lys Ala Ala Ile Arg Lys Ala Leu Gly Thr Leu  
85 90 95  
Val Pro Val Ala Arg Leu Gln Val Thr Ser  
100 105

<210> 159  
<211> 201  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 159  
Leu Ser Ser Leu Leu Pro Gln Arg Leu Xaa Glu Pro Ser Ser Ser Ser  
1 5 10 15

Pro Gly Xaa Arg Thr Trp Gln Leu Ser Gln Lys Ser Arg Gly Pro Ser  
                   20                  25                  30  
 Arg Ala Ser Ser Met Ser Val Leu Asn Ser Leu Arg Ser Ser Ser Trp  
                   35                  40                  45  
 Trp Pro Arg Leu His Thr His Thr Ser Met Pro Glu Ser Pro Val Lys  
                   50                  55                  60  
 Arg Arg Cys Leu Pro Gly Val Phe Ser Leu Leu Ser Gly Ala Pro Cys  
   65                  70                  75                  80  
 Ser Glu Leu Ser Ser Phe Ser Ser Ser Ser Leu His Ser Ala Ser Leu  
                   85                  90                  95  
 Ser Arg Lys Ala Pro Gly Ser Ser Ser Pro Arg Pro Ala Thr Glu Pro  
                   100                  105                  110  
 Leu Gly Ser Ile Pro Gly Ala Leu Val Ala Ala Arg Ser Thr Gly Arg  
                   115                  120                  125  
 Ser Glu Gly Ser Gly Ser Ala Met Leu Gly Gly Leu Val Leu Leu Leu  
                   130                  135                  140  
 Leu Gly Ser Asp Lys Gly Leu Leu Cys Ala Pro Trp Asp Pro Leu Val  
   145                  150                  155                  160  
 Gly Ser Met Pro Gly Gly Leu Pro Pro Ala Gly Pro His Cys Gly Gly  
                   165                  170                  175  
 Ser Ser Cys Cys Cys Cys Ser Trp Lys Ala Leu Tyr Gly Gly Gly Gly  
                   180                  185                  190  
 Val Gly Gly Arg Phe Thr Thr Ser Ser  
                   195                  200

<210> 160  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 160  
 Met Ala Leu Leu Leu Leu Gln Ala Leu Pro Ser Pro Leu Ser Ala Arg  
   1                  5                  10                  15  
 Ala Glu Pro Pro Gln Asp Lys Glu Ala Cys Val Gly Thr Asn Asn Gln  
                   20                  25                  30  
 Ser Tyr Ile Cys Asp Thr Gly His Cys Cys Gly Gln Ser Gln Cys Cys  
                   35                  40                  45  
 Lys Leu Leu Leu  
                   50

<210> 161  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 161  
Leu Leu Leu Leu Gln Ala Leu Pro Ser Pro Leu Ser Ala Arg Ala Glu  
1 5 10 15  
Pro Pro Gln Asp Lys Glu Ala Cys Val Gly Thr Asn Asn Gln Ser Tyr  
20 25 30  
Ile Cys Asp Thr Gly His Cys Cys Gly Gln Ser Gln Cys Cys Asn Tyr  
35 40 45  
Tyr Tyr Glu Leu Trp Trp Phe Trp Leu Val Trp Thr Ile Ile Ile Ile  
50 55 60  
Leu Ser Cys Cys Cys Val Cys His His Arg Arg Ala Lys His Arg Leu  
65 70 75 80  
Gln Ala Gln Gln Arg Gln His Glu Ile Asn Leu Ile Ala Tyr Arg Glu  
85 90 95  
Ala His Asn Tyr Ser Ala Leu Pro Phe Tyr Phe Arg Phe Leu Pro Asn  
100 105 110  
Tyr Leu Leu Pro Pro Leu  
115

<210> 162  
<211> 363  
<212> PRT  
<213> Homo sapiens

<400> 162  
Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln  
1 5 10 15  
Ala Leu Pro Ser Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Asp Lys  
20 25 30  
Glu Ala Cys Val Gly Thr Asn Asn Gln Ser Tyr Ile Cys Asp Thr Gly  
35 40 45  
His Cys Cys Gly Gln Ser Gln Cys Cys Asn Tyr Tyr Tyr Glu Leu Trp  
50 55 60  
Trp Phe Trp Leu Val Trp Thr Ile Ile Ile Ile Leu Ser Cys Cys Cys  
65 70 75 80  
Val Cys His His Arg Arg Ala Lys His Arg Leu Gln Ala Gln Gln Arg  
85 90 95

Gln	His	Glu	Ile	Asn	Leu	Ile	Ala	Tyr	Arg	Glu	Ala	His	Asn	Tyr	Ser			
			100					105					110					
Ala	Leu	Pro	Phe	Tyr	Phe	Arg	Phe	Leu	Pro	Asn	Tyr	Leu	Leu	Pro	Pro			
		115					120					125						
Tyr	Glu	Glu	Val	Val	Asn	Arg	Pro	Pro	Thr	Pro	Pro	Pro	Pro	Tyr	Ser			
	130					135					140							
Ala	Phe	Gln	Leu	Gln	Gln	Gln	Gln	Leu	Leu	Pro	Pro	Gln	Cys	Gly	Pro			
145					150					155					160			
Ala	Gly	Gly	Ser	Pro	Pro	Gly	Ile	Asp	Pro	Thr	Arg	Gly	Ser	Gln	Gly			
				165					170					175				
Ala	Gln	Ser	Ser	Pro	Leu	Ser	Glu	Pro	Ser	Arg	Ser	Ser	Thr	Arg	Pro			
			180					185					190					
Pro	Ser	Ile	Ala	Asp	Pro	Asp	Pro	Ser	Asp	Leu	Pro	Val	Asp	Arg	Ala			
		195					200					205						
Ala	Thr	Lys	Ala	Pro	Gly	Met	Glu	Pro	Ser	Gly	Ser	Val	Ala	Gly	Leu			
	210					215					220							
Gly	Glu	Leu	Asp	Pro	Gly	Ala	Phe	Leu	Asp	Lys	Asp	Ala	Glu	Cys	Arg			
225					230					235					240			
Glu	Glu	Leu	Leu	Lys	Asp	Asp	Ser	Ser	Glu	His	Gly	Ala	Pro	Asp	Ser			
				245					250					255				
Lys	Glu	Lys	Thr	Pro	Gly	Arg	His	Arg	Arg	Phe	Thr	Gly	Asp	Ser	Gly			
			260					265					270					
Ile	Glu	Val	Cys	Val	Cys	Asn	Arg	Gly	His	His	Asp	Asp	Asp	Leu	Lys			
		275					280					285						
Glu	Val	Asn	Thr	Leu	Ile	Asp	Asp	Ala	Leu	Asp	Gly	Pro	Leu	Asp	Phe			
	290					295					300							
Cys	Asp	Ser	Cys	His	Val	Arg	Pro	Pro	Gly	Asp	Glu	Glu	Glu	Gly	Leu			
305					310					315					320			
Cys	Gln	Pro	Ser	Glu	Glu	Gln	Ala	Arg	Glu	Pro	Gly	His	Pro	His	Leu			
				325					330				335					
Pro	Arg	Pro	Pro	Ala	Cys	Leu	Leu	Leu	Asn	Thr	Ile	Asn	Glu	Gln	Asp			
			340					345					350					
Ser	Pro	Asn	Ser	Gln	Ser	Asn	Ser	Ser	Pro	Ser								
		355					360											

<210> 163

<211> 199

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 163

Gln Xaa Lys Pro Pro Xaa Pro Ala Ala Pro Ala Ala Pro Xaa Ala Pro  
1 5 10 15

Ala Pro Leu Glu Lys Pro Ile Arg Ser His Glu Ala Thr Gly Gly Gly  
20 25 30

Glu Xaa Ala Cys Gly Val Thr Gly Ala Ser Thr Pro Glu Gly Thr Ala  
35 40 45

Pro Pro Xaa Pro Ala Ala Pro Ala Pro Pro Lys Gly Glu Lys Glu Gly  
50 55 60

Gln Arg Pro Thr Gln Pro Val Tyr Gln Ile Gln Asn Arg Gly Met Gly  
65 70 75 80

Thr Ala Ala Pro Ala Ala Met Asp Arg Glu Leu Gly Leu Gly Ser Thr  
85 90 95

Arg Leu Gly Thr Gly Val Ser Ser Gln Ile Leu Thr Ala Ser Ser Val  
100 105 110

Ser Cys Phe Leu Gln Ser Pro Ala Val Val Gly Gln Ala Lys Leu Leu  
115 120 125

Pro Pro Glu Arg Met Lys His Ser Ile Lys Leu Val Asp Asp Gln Met  
130 135 140

Asn Trp Cys Asp Ser Ala Ile Glu Val Pro Arg Gly Pro Ala Leu Pro  
145 150 155 160

Glu Leu Pro His Ile Leu His Pro Leu Ile Phe His Leu Ser Val Gly  
165 170 175

Asn Thr Arg Leu Glu Gly Phe Glu Ala Thr Tyr Ser Ser Glu Arg Gly  
180 185 190

Trp Tyr Gln Asn Ile Leu Thr  
195

<210> 164  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 164  
Met Lys Asn Ser Phe Phe Thr Val Ser Trp Ala Leu Thr Cys Ser Phe  
1 5 10 15

Ser Trp Ala Thr Val  
20

<210> 165  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 165  
Met Lys Asn Ser Phe Phe Thr Val Ser Trp Ala Leu Thr Cys Ser Phe  
1 5 10 15

Ser Trp Ala Thr Val  
20

<210> 166  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 166  
Met Pro Leu Phe Arg Thr Phe Lys Gln Leu Gly Leu Phe Leu Phe Leu  
1 5 10 15

Ile Ile Pro Ile Ile Cys Ser Ser Leu Pro Pro Leu Gly Pro Val Gln  
20 25 30

Ser Phe Leu Gly Cys Leu Tyr  
35

<210> 167  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 167  
Met Leu Leu Leu Val Val Thr Leu Val Asn Leu Ser Ile Tyr Lys Leu  
1 5 10 15  
Ile Lys Leu Val Thr Ala Leu Ser Lys Lys Leu Gly Ala Lys Gly Val  
20 25 30  
Leu Lys Asn Ala His Phe Met Arg Cys Asn Cys Gly Glu Met Arg Thr  
35 40 45  
Arg Ser  
50

<210> 168  
<211> 2  
<212> PRT  
<213> Homo sapiens

<400> 168  
Leu Leu  
1

<210> 169  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 169  
Trp Tyr Gln Gly Lys Xaa Asp Leu Lys Gly Leu Gly Xaa Val Leu Asp  
1 5 10 15  
Gly Ser Asp Gly Met Ala Gly Gly Ile Pro Glu Gly Met Ala Phe Thr  
20 25 30



Leu Tyr Leu Gly Ile Trp Leu Ser Ser Pro Phe Pro Asp Cys Cys Ile  
35 40 45

Ala Phe Xaa Phe Ala Tyr Ser Ser Ser Pro Leu Ser Ser Gly Asp Thr  
50 55 60

Phe Gln Gly Pro Gln  
65

<210> 170  
<211> 135  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (33)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (129)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 170  
Ala Lys Met Pro Trp Thr Cys Ser Val Ser Asp Pro Thr Ser Cys Asp  
1 5 10 15

Ser Gln Ala Gln Lys Met Pro Gly Val Arg Ala Ser Arg Gln Pro Gly  
20 25 30

Xaa Gly Arg Gln Cys Leu Leu Leu Leu His Gln Val Gln Gly Ile Trp  
35 40 45

Leu Lys Ala Cys Ile Phe Pro Gly His Lys Leu Pro Glu Pro Leu Lys  
50 55 60

Trp Glu Ala Arg Gln Phe Gln Thr Asn Leu Phe Ser Thr His His Ser  
65 70 75 80

Thr Phe Lys Val Cys Leu Leu Leu Leu Pro Val His Pro Pro Ser Leu  
85 90 95

Gln Phe Phe His Ser Leu Thr Ser Glu Arg Val Pro Gly Gly Ser Met  
100 105 110

Val Asn Lys Leu Thr Cys Met Leu Gln Lys Lys Lys Lys Lys Lys Ile  
115 120 125

Xaa Ala Val Arg Lys Gly Ile  
130 135

<210> 171  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 171  
Met Leu Leu Leu Val Val Thr Leu Val Asn Leu Ser Ile Tyr Lys Leu  
1 5 10 15  
Ile Lys Leu Val Thr Ala Leu Ser Lys Lys Leu Gly Ala Lys Gly Val  
20 25 30  
Leu Lys Asn Ala His Phe Met Arg Cys Asn Cys Gly Glu Met Arg Thr  
35 40 45  
Arg Ser  
50

<210> 172  
<211> 77  
<212> PRT  
<213> Homo sapiens

<400> 172  
Met Ala Thr Thr Gly Thr Lys Pro Thr Ser Cys Trp Cys Trp Phe Leu  
1 5 10 15  
Leu Ala Met Cys Trp Phe Val Gln Leu Arg Thr Glu Trp Glu Arg Ala  
20 25 30  
Phe Leu Phe Val Pro Ile Ala Arg Glu Pro Gly Arg Leu Cys Arg Phe  
35 40 45  
Ser Gly Asn Lys Gln Leu Asn Gly Leu Ala Val Ala Leu Gln Ala Phe  
50 55 60  
Arg Phe Ala Lys Asn Lys Thr Ser Gln Lys Arg Cys Ala  
65 70 75

<210> 173  
<211> 77  
<212> PRT  
<213> Homo sapiens

<400> 173  
Met Ala Thr Thr Gly Thr Lys Pro Thr Ser Cys Trp Cys Trp Phe Leu  
1 5 10 15  
Leu Ala Met Cys Trp Phe Val Gln Leu Arg Thr Glu Trp Glu Arg Ala  
20 25 30  
Phe Leu Phe Val Pro Ile Ala Arg Glu Pro Gly Arg Leu Cys Arg Phe  
35 40 45

Ser Gly Asn Lys Gln Leu Asn Gly Leu Ala Val Ala Leu Gln Ala Phe  
50 55 60

Arg Phe Ala Lys Asn Lys Thr Ser Gln Lys Arg Cys Ala  
65 70 75

<210> 174  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 174  
Cys Asp Val Lys Pro Ala Asp Val Lys Asp Ile Gly Gly Thr Val Glu  
1 5 10 15

Ala Ser Cys Met Asn Phe Ser Trp Pro Ala Pro Thr Ala Gln Val His  
20 25 30

Thr Arg Lys Arg Arg Val Trp Ala Cys Leu Arg Val Asp Val Ser Ser  
35 40 45

Glu Val Arg Pro Gly Lys Ala Leu  
50 55

<210> 175  
<211> 68  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 175  
Met Ala Gln Ser Arg Val Leu Leu Leu Leu Leu Leu Leu Pro Pro Gln  
1 5 10 15

Leu Ala Pro Gly Thr Cys Ala Cys Arg Glu Gly Pro Arg Ile Trp Pro  
20 25 30

Asn Gly Gly His Ser Leu Ser Pro Glu Glu Asn Xaa Leu Arg Lys Lys  
35 40 45

Ser Arg Leu Leu Leu Ile Glu Ala Xaa Lys Lys Pro Gly Ala Trp Ala  
50 55 60

Gln Ala Ala Val  
65

<210> 176  
<211> 85  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 176  
Met Ala Gln Ser Arg Val Leu Leu Leu Leu Leu Leu Leu Pro Pro Gln  
1 5 10 15  
Leu His Leu Gly Pro Val Leu Ala Val Xaa Ala Pro Gly Phe Gly Arg  
20 25 30  
Ser Gly Gly His Ser Leu Ser Pro Glu Glu Asn Glu Phe Ala Glu Glu  
35 40 45  
Glu Pro Val Leu Val Leu Ser Pro Glu Glu Pro Gly Pro Gly Pro Ala  
50 55 60  
Ala Val Ser Cys Pro Arg Asp Cys Ala Cys Ser Gln Glu Gly Val Val  
65 70 75 80  
Asp Cys Gly Gly Tyr  
85

<210> 177  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 177  
Met Ile Tyr Gln Ile Tyr Gly Ile Ile Cys Ser Leu Phe Pro  
1 5 10

<210> 178  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 178  
Gly Pro Phe Cys Asp Val Thr Thr Leu His Leu Pro Gly Leu Leu Cys  
1 5 10 15  
Thr Gln Cys Ser Leu Asp Pro Val Asp Leu Tyr Leu Trp Arg Ser

20

25

30

<210> 179  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 179  
Met Ile Tyr Gln Ile Tyr Gly Ile Ile Cys Ser Leu Phe Pro  
1 5 10

<210> 180  
<211> 71  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 180  
Thr Met Gly Pro Gly Asp Arg His Arg Leu Pro Val Tyr Leu Gly His  
1 5 10 15  
Cys Leu Gly Cys Leu Glu Ser Gly Leu Leu Ala Gln Ile Leu Pro Leu  
20 25 30  
Leu Gly Gln Gly Arg Pro Phe Met Asp Ser Leu Ile Arg Val Ala Ala  
35 40 45  
Glu Arg Arg Ala Gly Gln Val Leu Lys Gly Thr Leu Lys Arg Phe Ser  
50 55 60  
Glu Arg Gln Gly Arg Arg Xaa  
65 70

<210> 181  
<211> 204  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 181

Xaa Pro Ser Leu Xaa Gly Thr Xaa Ala Gly Gly Ser Thr Ala Val Ala  
1 5 10 15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg  
20 25 30

Ala Ala Ala Glu Leu Ser Leu Leu Glu Lys Ser Leu Gly Leu Ser Lys  
35 40 45

Gly Asn Lys Tyr Ser Ala Gln Gly Glu Arg Gln Ile Pro Val Leu Gln  
50 55 60

Thr Asn Asn Gly Pro Ser Leu Thr Gly Leu Thr Thr Ile Ala Ala His  
65 70 75 80

Leu Val Lys Gln Ala Asn Lys Glu Tyr Leu Leu Gly Ser Thr Ala Glu  
85 90 95

Glu Lys Ala Ile Val Gln Gln Trp Leu Glu Tyr Arg Val Thr Gln Val  
100 105 110

Asp Gly His Ser Ser Lys Asn Asp Ile His Thr Leu Leu Lys Asp Leu  
115 120 125

Asn Ser Tyr Leu Glu Asp Lys Val Tyr Leu Thr Gly Tyr Asn Phe Thr  
130 135 140

Leu Ala Asp Ile Leu Leu Tyr Tyr Gly Leu His Arg Phe Ile Val Asp  
145 150 155 160

Leu Thr Val Gln Glu Lys Glu Lys Tyr Leu Asn Val Ser Arg Trp Phe  
165 170 175

Cys His Ile Gln His Tyr Pro Gly Ile Arg Gln His Leu Ser Ser Val  
180 185 190

Val Phe Ile Lys Asn Arg Leu Tyr Thr Asn Ser His  
195 200

<210> 182

<211> 54

<212> PRT

<213> Homo sapiens

<400> 182

Met Thr Ser Pro Leu Ala Arg Leu Leu Leu Pro Phe Trp Cys His Thr  
1 5 10 15

Leu Gly Thr Met Ala Leu Gly Thr Pro Asn Pro Gly Ala Met Ala Trp  
20 25 30

Gly Ala Val Gly Glu Pro Asn Pro Gly Ala Trp Thr Val Pro Leu Gly  
35 40 45

Ala Phe Leu Ala Gly Arg  
50

<210> 183  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 183  
Met Thr Ser Pro Leu Ala Arg Leu Leu Leu Pro Phe Trp Cys His Thr  
1 5 10 15

Leu Gly Thr Met Ala Leu Gly Thr Pro Asn Pro Gly Ala Met Ala Trp  
20 25 30

Gly Ala Val Gly Glu Pro Asn Pro Gly Ala Trp Thr Val Pro Leu Gly  
35 40 45

Ala Phe Leu Ala Gly Arg  
50

<210> 184  
<211> 1  
<212> PRT  
<213> Homo sapiens

<400> 184  
Ser  
1

<210> 185  
<211> 3  
<212> PRT  
<213> Homo sapiens

<400> 185  
Leu Leu Cys  
1

<210> 186  
<211> 1  
<212> PRT  
<213> Homo sapiens

<400> 186

Ser

1

<210> 187

<211> 5

<212> PRT

<213> Homo sapiens

<400> 187

Ala Gly Thr Trp Ser

1

5

<210> 188

<211> 45

<212> PRT

<213> Homo sapiens

<400> 188

Met Ala Gly Val Trp Asn Thr Ile Ala Leu Trp Phe Leu Ser Val Phe

1

5

10

15

Gly Val Ile Ser Ala Pro Thr Thr Gly Thr Ser Pro Thr Ser Cys Arg

20

25

30

Cys Val Gly Pro Arg Pro Pro Gly Cys Gly Pro Ala Gly

35

40

45

<210> 189

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 189

Leu Ile Asn Val Thr Asn Val Gly Ile Ile Leu Ala Val Ser Gln Pro

1

5

10

15

Leu Asp Asp Ile Xaa Glu Phe Ile Ile Glu Lys Arg Ser Asp Tyr Asn

20

25

30

Lys Tyr Arg Lys Glu Asn Met Trp Leu Pro Leu Asn Pro Tyr

35

40

45



<210> 190  
 <211> 304  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (187)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 190  
 Met Leu Gln Phe Gln Arg Thr Trp Lys Tyr Lys Gly Glu Phe Xaa Leu  
   1                  5                  10                  15  
 His Gln Gly Asn Ala Glu Arg His Phe Met Gln Val Thr Xaa Val Xaa  
                   20                  25                  30  
 Glu Ile Ser Thr Gly Lys Arg Asp Asn Glu Phe Ser Asn Ser Gly Arg  
           35                  40                  45  
 Ser Ile Pro Leu Lys Ser Val Phe Leu Thr Gln Gln Lys Val Pro Thr  
       50                  55                  60  
 Ile Gln Gln Val His Lys Phe Asp Ile Tyr Asp Lys Leu Phe Pro Gln  
   65                  70                  75                  80  
 Asn Ser Val Ile Ile Glu Tyr Lys Arg Leu His Ala Glu Lys Glu Ser  
                   85                  90                  95  
 Leu Ile Gly Asn Glu Cys Glu Glu Phe Asn Gln Ser Thr Tyr Leu Ser  
                   100                  105                  110  
 Lys Asp Ile Gly Ile Pro Pro Gly Glu Lys Pro Tyr Glu Ser His Asp  
           115                  120                  125  
 Phe Ser Lys Leu Leu Ser Phe His Ser Leu Phe Thr Gln His Gln Thr  
       130                  135                  140  
 Thr His Phe Gly Lys Leu Pro His Gly Tyr Asp Glu Cys Gly Asp Ala  
 145                  150                  155                  160  
 Phe Ser Cys Tyr Ser Phe Phe Thr Gln Pro Gln Arg Ile His Ser Gly

				165					170					175			
Glu	Lys	Pro	Tyr	Ala	Cys	Asn	Asp	Cys	Gly	Xaa	Ala	Phe	Ser	Pro	Thr		
			180					185					190				
Ser	Phe	Ser	Val	Asn	Ile	Lys	Glu	Leu	Ile	Leu	Gly	Arg	Asn	Leu	Met		
		195					200					205					
Asn	Val	Arg	Asn	Val	Thr	Lys	Leu	Ser	Asp	Arg	Val	Leu	Thr	Leu	Leu		
	210					215					220						
Asn	Ile	Arg	Gly	Ser	Thr	Leu	Glu	Arg	Asn	Arg	Leu	Arg	Ala	Met	Asn		
225					230					235					240		
Val	Gly	Arg	Pro	Leu	Ala	Val	Met	Pro	Ser	Leu	Leu	Asn	Ile	Arg	Glu		
				245					250					255			
Phe	Thr	Gln	Val	Arg	Asn	His	Met	Asn	Val	Lys	Asn	Val	Ile	Lys	Pro		
			260					265					270				
Ser	Asp	Arg	Val	Leu	Thr	Leu	Ile	Asn	Ile	Arg	Gly	Phe	Thr	Leu	Glu		
		275					280					285					
Arg	Asn	Pro	Met	Asn	Val	Ile	Ser	Val	Glu	Lys	Pro	Ser	Ala	Asp	Ala		
	290					295					300						

<210> 191  
 <211> 336  
 <212> PRT  
 <213> Homo sapiens

<400> 191																	
Met	Asp	Thr	Met	Asn	Val	Val	Met	Pro	Leu	Ala	Val	Thr	His	Ser	Leu		
1				5					10					15			
Leu	Asn	Leu	Arg	Glu	Phe	Thr	Val	Val	Glu	Lys	Pro	Tyr	Ala	Cys	Asn		
			20					25					30				
Asp	Cys	Gly	Lys	Ala	Phe	Ser	His	Asp	Phe	Phe	Leu	Ser	Glu	His	Gln		
		35					40					45					
Arg	Thr	His	Ile	Gly	Glu	Lys	Pro	Tyr	Glu	Cys	Lys	Glu	Cys	Asn	Lys		
	50					55					60						
Ala	Phe	Arg	Gln	Ser	Ala	His	Leu	Ala	Gln	His	Gln	Arg	Ile	His	Thr		
65					70					75					80		
Gly	Glu	Lys	Pro	Phe	Ala	Cys	Asn	Glu	Cys	Gly	Lys	Ala	Phe	Ser	Arg		
				85					90					95			
Tyr	Ala	Phe	Leu	Val	Glu	His	Gln	Arg	Ile	His	Thr	Gly	Glu	Lys	Pro		
			100					105					110				



Lys Lys Gly Ala Met Ser Gln Lys Glu Ala Pro Phe His Arg Gln Arg  
20 25 30

Leu His Arg Glu Arg Gly Asn Arg Arg Leu Gly Asn Gly Gly Glu Trp  
35 40 45

Gly Arg Asn Trp Val Gln  
50

<210> 193  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 193  
Met His Gln Leu Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val  
1 5 10 15

Gly Gly Gly Leu Gly Gly Ile Ile Leu Val Leu  
20 25

<210> 194  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 194  
Met Pro Gly Val Leu Gly Ala Leu Leu Gly Val Leu Val Ala Gly Leu  
1 5 10 15

Ala Thr His Glu Ala Tyr Gly Asp Gly Leu Glu Ser Val Phe Pro Leu  
20 25 30

Ile Ala Glu Gly Gln Arg Ser Ala Thr Ser Gln Ala Met His Gln Leu  
35 40 45

Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val Gly Gly Gly Leu  
50 55 60

Gly Gly Ile Ile Leu Val Leu Cys Leu Leu Asp Pro Cys Ala Leu Trp  
65 70 75 80

His Trp Val Ala Pro Ser Ser Met Val Gly Gly Arg Glu Ala Ser Gln  
85 90 95

Ile Leu Pro Tyr His His Gln Gly Ser Cys  
100 105

<210> 195  
<211> 60  
<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 195

Asn	Leu	Xaa	Cys	Cys	Glu	Pro	Leu	Lys	Gly	Thr	Glu	Ile	Val	His	Leu
1				5					10					15	

Xaa	Ser	Ser	Asp	Phe	Lys	Ala	Val	Ala	Cys	Arg	Cys	Ser	Gln	Leu	Asn
			20					25					30		

Lys	Ala	Leu	Pro	Ser	Thr	Thr	Leu	Arg	Gly	Phe	Val	Cys	Gly	Ser	Ser
		35					40					45			

Cys	Tyr	Ile	Ser	Trp	Phe	Pro	Asn	Gln	Glu	Thr	Arg
	50					55					60

<210> 196

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 196

Pro	Gly	Asn	Glu	Val	Thr	Asp	Gly	Gln	Pro	Arg	Gln	Pro	Leu	Arg	Arg
1				5				10						15	

Leu	Arg	Leu	Pro	Cys	Gly	Ala	Ser	Leu	Xaa	Arg	Xaa	Pro	Ala	Ser	Pro
			20					25					30		

Ser	Asp	Ala	Ile	Gln	Arg	Ala	Leu	Pro	Gly	Arg	Lys	Leu	Pro	Arg	Trp
		35					40					45			

Asn	Ala	Ser	Pro	Glu	Gln	Arg	Val	Ala	Val	Pro	Cys	Gly	Gly	Leu	Thr
	50					55					60				

Gln	Trp	Leu	Asn	Thr	Gly	Lys	Glu	Leu	Ala	Leu	Gly	Val	Arg	Thr	Ser
65					70					75					80

Glu Thr

<210> 197  
<211> 94  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 197  
Arg Xaa Pro Ile Phe Ile Gly Glu Asn Phe Tyr Pro Pro Val Arg Gly  
1 5 10 15  
Arg Val Gly Met Ser Ala Cys Gln Gly Gly Gly Gly Gly Gly Gly Gly  
20 25 30  
Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly  
35 40 45  
Gly Gly Gly Gly Val Asp Lys Leu Pro Cys Leu Thr Met Cys Trp Cys  
50 55 60  
Gly Asn Gly Ala Gln Pro Ala Arg Leu Lys Val Asp Gly Ile Pro Thr  
65 70 75 80  
Gly Gln Arg Lys Ser Tyr Ala Asp Thr Pro Ala Trp Pro Gly  
85 90

<210> 198  
<211> 257  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 198  
Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro  
1 5 10 15  
Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Xaa Glu Pro Leu Arg Ile  
20 25 30  
Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile  
35 40 45

Ser Ser Leu Val Trp Phe Met Ala Arg Val Ile Ile Asp Asn Lys Asp  
 50 55 60  
 Gly Pro Thr Gln Lys Tyr Leu Leu Ile Phe Gly Ala Phe Val Ser Val  
 65 70 75 80  
 Tyr Ile Gln Glu Met Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys  
 85 90 95  
 Ala Ser Glu Gly Leu Lys Ser Ile Asn Pro Gly Glu Thr Ala Pro Ser  
 100 105 110  
 Met Arg Leu Leu Ala Tyr Val Ser Gly Leu Gly Phe Gly Ile Met Ser  
 115 120 125  
 Gly Val Phe Ser Phe Val Asn Thr Leu Ser Asp Ser Leu Gly Pro Gly  
 130 135 140  
 Thr Val Gly Ile His Gly Asp Ser Pro Gln Phe Phe Leu Tyr Ser Ala  
 145 150 155 160  
 Phe Met Thr Leu Val Ile Ile Leu Leu His Val Phe Trp Gly Ile Val  
 165 170 175  
 Phe Phe Asp Gly Cys Glu Lys Lys Lys Trp Gly Ile Leu Leu Ile Val  
 180 185 190  
 Leu Leu Thr His Leu Leu Val Ser Ala Gln Thr Phe Ile Ser Ser Tyr  
 195 200 205  
 Tyr Gly Ile Asn Leu Ala Ser Ala Phe Ile Ile Leu Val Leu Met Gly  
 210 215 220  
 Thr Trp Ala Phe Leu Ala Ala Gly Gly Ser Cys Arg Ser Leu Lys Leu  
 225 230 235 240  
 Cys Leu Leu Cys Gln Asp Lys Asn Phe Leu Leu Tyr Asn Gln Arg Ser  
 245 250 255

Arg

<210> 199  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Met Thr Ala Ala Val Phe Phe Gly Cys Ala Phe Ile Ala Phe Gly Pro  
 1 5 10 15  
 Ala Leu Ala Leu Tyr Val Phe Thr Ile Ala Ile Glu Pro Leu Arg Ile  
 20 25 30  
 Ile Phe Leu Ile Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Ile

35					40					45					
Ser	Ser	Leu	Val	Trp	Phe	Met	Ala	Arg	Val	Ile	Ile	Asp	Asn	Lys	Asp
	50					55					60				
Gly	Pro	Thr	Gln	Lys	Tyr	Leu	Leu	Ile	Phe	Gly	Ala	Phe	Val	Ser	Val
	65					70					75				80
Tyr	Ile	Gln	Glu	Met	Phe	Arg	Phe	Ala	Tyr	Tyr	Lys	Leu	Leu	Lys	Lys
				85					90					95	
Ala	Ser	Glu	Gly	Leu	Lys	Ser	Ile	Asn	Pro	Gly	Glu	Thr	Ala	Pro	Ser
			100					105					110		
Met	Arg	Leu	Leu	Ala	Tyr	Val	Ser	Gly	Leu	Gly	Phe	Gly	Ile	Met	Ser
		115					120					125			
Gly	Val	Phe	Ser	Phe	Val	Asn	Thr	Leu	Ser	Asp	Ser	Leu	Gly	Pro	Gly
	130					135					140				
Thr	Val	Gly	Ile	His	Gly	Asp	Ser	Pro	Gln	Phe	Phe	Leu	Tyr	Ser	Ala
	145					150					155				160
Phe	Met	Thr	Leu	Val	Ile	Ile	Leu	Leu	His	Val	Phe	Trp	Gly	Ile	Val
				165					170					175	
Phe	Phe	Asp	Gly	Cys	Glu	Lys	Lys	Lys	Trp	Gly	Ile	Leu	Leu	Ile	Val
			180					185					190		
Leu	Leu	Thr	His	Leu	Leu	Val	Ser	Ala	Gln	Thr	Phe	Ile	Ser	Ser	Tyr
		195					200					205			
Tyr	Gly	Ile	Asn	Leu	Ala	Ser	Ala	Phe	Ile	Ile	Leu	Val	Leu	Met	Gly
	210					215					220				
Thr	Trp	Ala	Phe	Leu	Ala	Ala	Gly	Gly	Ser	Cys	Arg	Ser	Leu	Lys	Leu
	225					230					235				240
Cys	Leu	Leu	Cys	Gln	Asp	Lys	Asn	Phe	Leu	Leu	Tyr	Asn	Gln	Arg	Ser
				245					250					255	

Arg

<210> 200

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>



<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 200  
Trp Arg His Leu Thr Val Ser Xaa Gly Leu Gln Xaa Arg Leu Ser Xaa  
1 5 10 15  
Arg Xaa Xaa Trp Glu Gly Xaa Pro Arg Ser Thr Thr Ala Ala Gly Trp  
20 25 30  
Gly Arg Thr Gly  
35

<210> 201  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 201  
His Leu Ser Leu Pro Arg Leu Leu Trp Thr Leu Gln Ile Pro Gln Cys  
1 5 10 15  
Pro Gln Leu Gln Asp  
20

<210> 202  
<211> 78  
<212> PRT  
<213> Homo sapiens

<400> 202  
Asp Pro Gln Asn Ile Tyr Trp Glu His Leu Ser Ile Arg Gly Phe Ile

1	5	10	15
Trp Trp Leu Arg Cys Leu Val Ile Asn Val Val Leu Phe Ile Leu Leu	20	25	30
Phe Phe Leu Thr Thr Pro Ala Ile Ile Ile Thr Thr Met Asp Lys Phe	35	40	45
Asn Val Thr Lys Pro Val Glu Tyr Leu Asn Val Arg Pro His Ala Pro	50	55	60
Val Thr Phe His Ala Gly Ser Gln His Thr Asp Thr Arg Pro	65	70	75

<210> 203  
 <211> 318  
 <212> PRT  
 <213> Homo sapiens

<400> 203
Met His Lys Cys Tyr Thr Phe Leu Ile Phe Met Val Leu Leu Leu Pro
1 5 10 15
Ser Leu Gly Leu Ser Ser Leu Asp Leu Phe Phe Arg Trp Leu Phe Asp
20 25 30
Lys Lys Phe Leu Ala Glu Ala Ala Ile Arg Phe Glu Cys Val Phe Leu
35 40 45
Pro Asp Asn Gly Ala Phe Phe Val Asn Tyr Val Ile Ala Ser Ala Phe
50 55 60
Ile Gly Asn Ala Met Asp Leu Leu Arg Ile Pro Gly Leu Leu Met Tyr
65 70 75 80
Met Ile Arg Leu Cys Leu Ala Arg Ser Ala Ala Glu Arg Arg Asn Val
85 90 95
Lys Arg His Gln Ala Tyr Glu Phe Arg Phe Gly Ala Ala Tyr Ala Trp
100 105 110
Met Met Cys Val Phe Thr Val Val Met Thr Tyr Ser Ile Thr Cys Pro
115 120 125
Ile Ile Val Pro Phe Gly Leu Met Tyr Met Leu Leu Lys His Leu Val
130 135 140
Asp Arg Tyr Asn Leu Tyr Tyr Ala Tyr Leu Pro Ala Lys Leu Asp Lys
145 150 155 160
Lys Ile His Ser Gly Ala Val Asn Gln Val Val Ala Ala Pro Ile Leu
165 170 175
Cys Leu Phe Trp Leu Leu Phe Phe Ser Thr Met Arg Thr Gly Phe Leu
180 185 190

Ala Pro Thr Ser Met Phe Thr Phe Val Val Leu Val Ile Thr Ile Val  
 195 200 205  
 Ile Cys Leu Cys His Val Cys Phe Gly His Phe Lys Tyr Leu Ser Ala  
 210 215 220  
 His Asn Tyr Lys Ile Glu His Thr Glu Thr Asp Thr Val Asp Pro Arg  
 225 230 235 240  
 Ser Asn Gly Arg Pro Pro Thr Ala Ala Val Pro Lys Ser Ala Lys  
 245 250 255  
 Tyr Ile Ala Gln Val Leu Gln Asp Ser Glu Val Asp Gly Asp Gly Asp  
 260 265 270  
 Gly Ala Pro Gly Ser Ser Gly Asp Glu Pro Pro Ser Ser Ser Ser Gln  
 275 280 285  
 Asp Glu Glu Leu Leu Met Pro Pro Asp Ala Leu Thr Asp Thr Asp Phe  
 290 295 300  
 Gln Ser Cys Glu Asp Ser Leu Ile Glu Asn Glu Ile His Gln  
 305 310 315

<210> 204  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 204  
 Val Val Val Glu Leu Ile Asn Arg Xaa Gln Asn Tyr Phe Gln Tyr Ile  
 1 5 10 15  
 Val Tyr Leu Tyr Xaa Lys Arg Asp Gly Pro Phe Tyr Gly Gly Thr Leu  
 20 25 30  
 Ser Met Val Val Phe Cys Asp Val Leu Phe Leu Leu Leu Leu Phe Ala  
 35 40 45  
 Leu Phe Ser Pro Ile Thr Ala Leu Leu Ser Leu Lys Arg Ile Asn Phe  
 50 55 60

Ile  
 65

<210> 205  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 205  
Ala Gln Glu Leu Arg Pro Ala Trp Glu Thr Trp Gln Gly Pro Ile Ser  
1 5 10 15  
Thr Glu Thr Thr Glu Asn Trp Val Gly Met Val Ala Arg Val Pro Ala  
20 25 30  
Ala Gln Glu Ala Glu Val Gly Gly Ser Leu Glu Pro Arg Arg Leu Arg  
35 40 45  
Leu Gln  
50

<210> 206  
<211> 90  
<212> PRT  
<213> Homo sapiens

<400> 206  
Asp Leu Thr Cys Leu Leu Ser Ser Asn Phe Ile Ile Gly Ile Asn Val  
1 5 10 15  
His Phe Phe Pro Val Pro Val Ser Glu Ala Phe Ile Cys Val Cys Met  
20 25 30  
Cys Val Leu Asn Lys Cys Ile Arg Tyr Leu Lys Asn Ser Asn Leu Asn  
35 40 45  
Leu Asn Asn Leu Lys Asn Glu Ile Val Ile Leu Cys Val Lys Val Ser  
50 55 60  
Asp Val Leu Tyr Ser Ala Leu Lys Thr Ile Phe Ile Tyr Ser Ser Thr  
65 70 75 80  
Asp Thr Lys Tyr Ile Leu Lys Leu Leu Ser  
85 90

<210> 207  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 207  
Met Ser Cys Leu Trp Ala Gly Ile Lys Phe Leu Gly Phe Gly Phe Cys  
1 5 10 15

Trp Met Asp Cys Ser Leu Cys Glu Pro Ile Trp Val Cys Gln Ile Gln  
20 25 30

Ser Leu Gly Cys His Gly Asn Leu Ala  
35 40

<210> 208  
<211> 103  
<212> PRT  
<213> Homo sapiens

<400> 208  
Ser Leu Asp Thr Ala Leu Leu Ser Thr Leu Cys Ser Leu Ala Phe Thr  
1 5 10 15

Ala Ala Ser Thr Ser Ser Thr Val Ala Tyr Val Thr Asn Pro Lys Pro  
20 25 30

Leu Glu His Leu Val Phe Gly Ser Leu Ile Thr Thr Val Cys Glu Cys  
35 40 45

Ser Leu Leu Leu Arg Met Ala His Trp Thr Leu Thr Gly His Phe Lys  
50 55 60

Ala Gln Leu Ser Asp Glu Glu Leu Leu Gln Leu Leu Gly Leu Leu Lys  
65 70 75 80

Arg Leu Cys Leu Arg His Asp Ser Ser Gly Lys Arg Asp Phe Asn Asp  
85 90 95

Val Phe Ser Gly Ile His Gly  
100

<210> 209  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 209  
Met Arg Gln Thr Lys Leu Glu Gly Trp Leu Ile Phe Pro Leu Phe Ser  
1 5 10 15

Cys Phe Ser Phe Ile Ser Leu Gly Ser Asp Glu Gly Pro Glu Ile Phe  
20 25 30

Ile Ser His Leu Lys Ser Leu Ala Asp Tyr Ser Arg Ala Leu Val Glu  
35 40 45

Val

<210> 210  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 210  
Met Arg Gln Thr Lys Leu Glu Gly Trp Leu Ile Phe Pro Leu Phe Ser  
1 5 10 15  
Cys Phe Ser Phe Ile Ser Leu Gly Ser Asp Glu Gly Pro Glu Ile Phe  
20 25 30  
Ile Ser His Leu Lys Ser Leu Ala Asp Tyr Ser Arg Ala Leu Val Glu  
35 40 45  
Val

<210> 211  
<211> 489  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (321)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 211  
Met Pro Gln Ala Ser Glu His Arg Leu Gly Arg Thr Arg Glu Pro Pro  
1 5 10 15  
Val Asn Ile Gln Pro Arg Val Gly Ser Lys Leu Pro Phe Ala Pro Arg  
20 25 30  
Ala Arg Ser Lys Glu Arg Arg Asn Pro Ala Ser Gly Pro Asn Pro Met  
35 40 45  
Leu Arg Pro Leu Pro Pro Arg Pro Gly Leu Pro Asp Glu Arg Leu Lys  
50 55 60  
Lys Leu Glu Leu Gly Arg Gly Arg Thr Ser Gly Pro Arg Pro Xaa Gly  
65 70 75 80  
Pro Leu Arg Ala Asp His Gly Val Pro Leu Pro Gly Ser Pro Pro Pro  
85 90 95  
Thr Val Ala Leu Pro Leu Pro Ser Arg Thr Asn Leu Ala Arg Ser Lys  
100 105 110

Ser	Val	Ser	Ser	Gly	Asp	Leu	Arg	Pro	Met	Gly	Ile	Ala	Leu	Gly	Gly		
	115						120					125					
His	Arg	Gly	Thr	Gly	Glu	Leu	Gly	Ala	Ala	Leu	Ser	Arg	Leu	Ala	Leu		
	130					135					140						
Arg	Pro	Glu	Pro	Pro	Thr	Leu	Arg	Arg	Ser	Thr	Ser	Leu	Arg	Arg	Leu		
145					150					155					160		
Gly	Gly	Phe	Pro	Gly	Pro	Pro	Thr	Leu	Phe	Ser	Ile	Arg	Thr	Glu	Pro		
				165					170					175			
Pro	Ala	Ser	His	Gly	Ser	Phe	His	Met	Ile	Ser	Ala	Arg	Ser	Ser	Glu		
			180					185					190				
Pro	Phe	Tyr	Ser	Asp	Asp	Lys	Met	Ala	His	His	Thr	Leu	Leu	Leu	Gly		
	195					200						205					
Ser	Gly	His	Val	Gly	Leu	Arg	Asn	Leu	Gly	Asn	Thr	Cys	Phe	Leu	Asn		
	210					215					220						
Ala	Val	Leu	Gln	Cys	Leu	Ser	Ser	Thr	Arg	Pro	Leu	Arg	Asp	Phe	Cys		
225					230					235					240		
Leu	Arg	Arg	Asp	Phe	Arg	Gln	Glu	Val	Pro	Gly	Gly	Gly	Arg	Ala	Gln		
				245					250					255			
Glu	Leu	Thr	Glu	Ala	Phe	Ala	Asp	Val	Ile	Gly	Ala	Leu	Trp	His	Pro		
		260						265					270				
Asp	Ser	Cys	Glu	Ala	Val	Asn	Pro	Thr	Arg	Phe	Arg	Ala	Val	Phe	Gln		
	275						280					285					
Lys	Tyr	Val	Pro	Ser	Phe	Ser	Gly	Tyr	Ser	Gln	Gln	Asp	Ala	Gln	Glu		
	290					295					300						
Phe	Leu	Lys	Leu	Leu	Met	Glu	Arg	Leu	His	Leu	Glu	Ile	Asn	Arg	Arg		
305					310					315					320		
Xaa	Arg	Arg	Ala	Pro	Pro	Ile	Leu	Ala	Asn	Gly	Pro	Val	Pro	Ser	Pro		
				325					330					335			
Pro	Arg	Arg	Gly	Gly	Ala	Leu	Leu	Glu	Glu	Pro	Glu	Leu	Ser	Asp	Asp		
			340					345					350				
Asp	Arg	Ala	Asn	Leu	Met	Trp	Lys	Arg	Tyr	Leu	Glu	Arg	Glu	Asp	Ser		
		355					360					365					
Lys	Ile	Val	Asp	Leu	Phe	Val	Gly	Gln	Leu	Lys	Ser	Cys	Leu	Lys	Cys		
	370					375					380						
Gln	Ala	Cys	Gly	Tyr	Arg	Ser	Thr	Thr	Phe	Glu	Val	Phe	Cys	Asp	Leu		
385					390					395					400		
Ser	Leu	Pro	Ile	Pro	Lys	Lys	Gly	Phe	Ala	Gly	Gly	Lys	Val	Ser	Leu		
				405					410					415			

Arg Asp Cys Phe Asn Leu Phe Thr Lys Glu Glu Glu Leu Glu Ser Glu  
 420 425 430  
 Asn Ala Pro Val Cys Asp Arg Cys Arg Gln Lys Thr Arg Ser Thr Lys  
 435 440 445  
 Lys Leu Thr Val Gln Arg Phe Pro Arg Ile Leu Val Leu His Leu Asn  
 450 455 460  
 Arg Phe Ser Ala Ser Arg Gly Ser Ile Lys Lys Ser Ser Val Gly Val  
 465 470 475 480  
 Asp Phe Ser Thr Ala Ala Thr Glu Pro  
 485

<210> 212  
 <211> 463  
 <212> PRT  
 <213> Homo sapiens

<400> 212

Ala Arg Gly Thr Asn Leu Ala Arg Ser Lys Ser Val Ser Ser Gly Asp  
 1 5 10 15  
 Leu Arg Pro Met Gly Ile Ala Leu Gly Gly His Arg Gly Thr Gly Glu  
 20 25 30  
 Leu Gly Ala Ala Leu Ser Arg Leu Ala Leu Arg Pro Glu Pro Pro Thr  
 35 40 45  
 Leu Arg Arg Ser Thr Ser Leu Arg Arg Leu Gly Gly Phe Pro Gly Pro  
 50 55 60  
 Pro Thr Leu Phe Ser Ile Arg Thr Glu Pro Pro Ala Ser His Gly Ser  
 65 70 75 80  
 Phe His Met Ile Ser Ala Arg Ser Ser Glu Pro Phe Tyr Ser Asp Asp  
 85 90 95  
 Lys Met Ala His His Thr Leu Leu Leu Gly Ser Gly His Val Gly Leu  
 100 105 110  
 Arg Asn Leu Gly Asn Thr Cys Phe Leu Asn Ala Val Leu Gln Cys Leu  
 115 120 125  
 Ser Ser Thr Arg Pro Leu Arg Asp Phe Cys Leu Arg Arg Asp Phe Arg  
 130 135 140  
 Gln Glu Val Pro Gly Gly Gly Arg Ala Gln Glu Leu Thr Glu Ala Phe  
 145 150 155 160  
 Ala Asp Val Ile Gly Ala Leu Trp His Pro Asp Ser Cys Glu Ala Val  
 165 170 175



Asn	Pro	Thr	Arg	Phe	Arg	Ala	Val	Phe	Gln	Lys	Tyr	Val	Pro	Ser	Phe			
			180					185					190					
Ser	Gly	Tyr	Ser	Gln	Leu	Asp	Ala	Gln	Glu	Phe	Leu	Lys	Leu	Leu	Met			
		195					200					205						
Glu	Arg	Leu	His	Leu	Glu	Ile	Asn	Arg	Arg	Asp	Arg	Arg	Ala	Pro	Pro			
		210				215					220							
Ile	Leu	Ala	Asn	Gly	Pro	Val	Pro	Ser	Pro	Pro	Arg	Arg	Gly	Gly	Ala			
225					230					235					240			
Leu	Leu	Glu	Glu	Pro	Glu	Leu	Ser	Asp	Asp	Asp	Arg	Ala	Asn	Leu	Met			
				245					250					255				
Trp	Lys	Arg	Tyr	Leu	Glu	Arg	Glu	Asp	Ser	Lys	Ile	Val	Asp	Leu	Phe			
			260					265					270					
Val	Gly	Gln	Leu	Lys	Ser	Cys	Leu	Lys	Cys	Gln	Ala	Cys	Gly	Tyr	Arg			
		275					280					285						
Ser	Thr	Thr	Phe	Glu	Val	Phe	Cys	Asp	Leu	Ser	Leu	Pro	Ile	Pro	Lys			
		290				295					300							
Lys	Gly	Phe	Ala	Gly	Gly	Lys	Val	Ser	Leu	Arg	Asp	Cys	Phe	Asn	Leu			
305					310					315					320			
Phe	Thr	Lys	Glu	Glu	Glu	Leu	Glu	Ser	Glu	Asn	Ala	Pro	Val	Cys	Asp			
				325					330					335				
Arg	Cys	Arg	Gln	Lys	Thr	Arg	Ser	Thr	Lys	Lys	Leu	Thr	Val	Gln	Arg			
			340					345					350					
Phe	Pro	Arg	Ile	Leu	Val	Leu	His	Leu	Asn	Arg	Phe	Ser	Ala	Ser	Arg			
		355				360					365							
Gly	Ser	Ile	Lys	Lys	Ser	Ser	Val	Gly	Val	Asp	Phe	Pro	Leu	Gln	Arg			
		370				375				380								
Leu	Ser	Leu	Gly	Asp	Phe	Ala	Ser	Asp	Lys	Ala	Gly	Ser	Pro	Val	Tyr			
385				390					395						400			
Gln	Leu	Tyr	Ala	Leu	Cys	Asn	His	Ser	Gly	Ser	Val	His	Tyr	Gly	His			
				405					410					415				
Tyr	Thr	Ala	Leu	Cys	Arg	Cys	Gln	Thr	Gly	Trp	His	Val	Tyr	Asn	Asp			
			420					425					430					
Ser	Arg	Val	Ser	Pro	Val	Ser	Glu	Asn	Gln	Val	Ala	Ser	Ser	Glu	Gly			
		435					440					445						
Tyr	Val	Leu	Phe	Tyr	Gln	Leu	Met	Gln	Glu	Pro	Pro	Arg	Cys	Leu				
		450				455					460							

<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 213  
Lys Ile Glu Leu Met Val Cys Thr Lys Ser Leu Val Tyr Val Leu Val  
1 5 10 15  
Phe Gln Asn Asn Phe Tyr Ile Asn Ile Tyr Ile Val Lys Lys Phe Phe  
20 25 30  
Leu Ile Phe Gly Trp Asp Ile Arg Lys Tyr Leu Tyr Tyr Thr Leu Ser  
35 40 45  
Tyr Tyr Asn Gly Thr  
50

<210> 214  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 214  
Leu Leu Ser Cys Phe Tyr Phe Phe Leu  
1 5

<210> 215  
<211> 66  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (18)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 215  
Met Leu Leu Leu Cys Tyr His Xaa Phe Leu Xaa Phe Val Leu Gly Thr

1	5	10	15
Gly Xaa Val Asn Ile Glu Glu Ala Glu Lys Leu Leu Lys Pro Tyr Leu	20	25	30
Asn Arg Tyr Pro Lys Gly Ala Ile Phe Leu Phe Phe Ala Gly Arg Ile	35	40	45
Glu Val Ile Lys Gly Asn Ile Asp Ala Ala Ile Arg Xaa Phe Glu Glu	50	55	60
Cys Cys	65		

<210> 216  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 216  
 Met Leu Leu Leu Cys Tyr His Xaa Phe Leu Xaa Phe Val Leu Gly Thr  
 1 5 10 15  
 Gly Xaa Val Asn Ile Glu Glu Ala Glu Lys Leu Leu Lys Pro Tyr Leu  
 20 25 30  
 Asn Arg Tyr Pro Lys Gly Ala Ile Phe Leu Phe Phe Ala Gly Arg Ile  
 35 40 45  
 Glu Val Ile Lys Gly Asn Ile Asp Ala Ala Ile Arg Xaa Phe Glu Glu  
 50 55 60  
 Cys Cys  
 65

<210> 217  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 217  
Met Tyr Lys Ile Thr Tyr Arg Val Cys Phe Leu Cys Gln Pro Leu Met  
1 5 10 15  
Val Gly Leu Gly Cys Ile Gly Ser Ile Ala Ile Val Leu Leu Leu Leu  
20 25 30  
Leu Leu Val Pro His Val Cys Pro Lys Ile Leu  
35 40

<210> 218  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 218  
Met Tyr Lys Ile Thr Tyr Arg Val Cys Phe Leu Cys Gln Pro Leu Met  
1 5 10 15  
Val Gly Leu Gly Cys Ile Gly Ser Ile Ala Ile Val Leu Leu Leu Leu  
20 25 30  
Leu Leu Val Pro His Val Cys Pro Lys Ile Leu  
35 40

<210> 219  
<211> 79  
<212> PRT  
<213> Homo sapiens

<400> 219  
Ala Pro Leu Ala Ala Ser Thr Ile Leu Ala Val Ala Ser Ala Arg Ile  
1 5 10 15  
Leu Ala Ala Leu Lys Ser Leu Arg Glu Phe Ser Arg Ser Leu Ser Pro  
20 25 30  
Ser Ala Ser Ala Leu Met Ala Leu Thr Arg Ser Asp Val Ala Trp Ala  
35 40 45  
Arg Met Arg Ala Cys Arg Thr Ile Ser Pro Ala Ser Pro Met Glu Leu  
50 55 60  
Lys Met Phe Ser Val Thr Val Arg Met Val Ser Val Ala Trp Ser  
65 70 75

<210> 220  
<211> 72  
<212> PRT  
<213> Homo sapiens

<400> 220  
Met Gly Thr Leu Met Val Leu Thr Arg Leu Ala Val Leu Leu Ala Thr  
1 5 10 15  
Ser Leu Ala Asp Cys Thr Asn Trp Arg Leu Ala Val Gly Leu Val Val  
20 25 30  
Arg Ala Glu Ala Arg Arg Gln Leu Leu His Ser Ala Glu Val Cys Leu  
35 40 45  
Ala Thr Met Val Ala Ala Glu Ser Thr Trp Ala Trp Val Gln Pro Gly  
50 55 60  
Ser Pro Lys Leu Trp Gln Ala Ile  
65 70

<210> 221  
<211> 72  
<212> PRT  
<213> Homo sapiens

<400> 221  
Met Gly Thr Leu Met Val Leu Thr Arg Leu Ala Val Leu Leu Ala Thr  
1 5 10 15  
Ser Leu Ala Asp Cys Thr Asn Trp Arg Leu Ala Val Gly Leu Val Val  
20 25 30  
Arg Ala Glu Ala Arg Arg Gln Leu Leu His Ser Ala Glu Val Cys Leu  
35 40 45  
Ala Thr Met Val Ala Ala Glu Ser Thr Trp Ala Trp Val Gln Pro Gly  
50 55 60  
Ser Pro Lys Leu Trp Gln Ala Ile  
65 70

<210> 222  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 222  
Met Cys Arg Thr Gln Phe His Leu Phe Trp Phe Ile Val Thr Glu Leu  
1 5 10 15

Ser Pro Val Ile Trp Ala Lys Ala Asn Gln Lys Leu Ser Cys Leu Ser  
20 25 30

Gln Gln Thr Leu Val Leu Val Tyr Phe Cys Arg  
35 40

<210> 223  
<211> 84  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 223  
Phe Ser Ile Phe Lys Asn His Ile Ser Leu Cys Trp Leu Ile Ile Ile  
1 5 10 15

Asn Phe Lys His Ser Phe Leu Gln Ser Gly Phe Ser Glu Phe Phe Phe  
20 25 30

Phe Lys Gln Xaa Xaa His Ser Phe Phe Leu Val Thr Ser Lys Gly Gly  
35 40 45

Thr Gly Val Gly Gly Lys Glu Cys Leu Lys Met Lys Ser Leu Asp Ile  
50 55 60

Glu Gly Pro Arg Arg Thr Gly Tyr Ala Lys Ile Ile Ser Asn Ser Ser  
65 70 75 80

Thr Ile Leu Glu

<210> 224  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 224  
Met Cys Arg Thr Gln Phe His Leu Phe Trp Phe Ile Val Thr Glu Leu  
1 5 10 15

Ser Pro Val Ile Trp Ala Lys Ala Asn Gln Lys Leu Ser Cys Leu Ser  
20 25 30

Gln Gln Thr Leu Val Leu Val Tyr Phe Cys Arg

35

40

<210> 225  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 225  
Pro His Cys Arg Trp Pro Gly Leu Tyr Arg Gln Leu Gly Arg Arg Arg  
1 5 10 15  
Arg Ser Thr Ala Leu Leu Arg Cys His Asn Val  
20 25

<210> 226  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 226  
Met Arg Lys Arg Arg Pro Tyr Asn Arg Trp Thr Gly Cys Trp Leu Arg  
1 5 10 15  
Leu Ala Val Ser Cys Arg Trp Ala Val Ala Ile Ser Ala Ser Pro Trp  
20 25 30  
Leu Arg Leu Thr Ser  
35

<210> 227  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 227  
Met Arg Lys Arg Arg Pro Tyr Asn Arg Trp Thr Gly Cys Trp Leu Arg  
1 5 10 15  
Leu Ala Val Ser Cys Arg Trp Ala Val Ala Ile Ser Ala Ser Pro Trp  
20 25 30  
Leu Arg Leu Thr Ser  
35

<210> 228  
<211> 153  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 228

Met Ala Ala Thr Gln Thr Gly Thr Cys Leu Met Val Ala Ala Leu Cys  
1 5 10 15

Phe Val Leu Val Leu Gly Ser Leu Val Pro Cys Leu Pro Glu Phe Ser  
20 25 30

Ser Gly Ser Gln Thr Val Lys Glu Asp Pro Leu Ala Ala Asp Gly Val  
35 40 45

Tyr Thr Ala Ser Gln Met Pro Ser Arg Ser Leu Leu Phe Tyr Asp Asp  
50 55 60

Gly Ala Gly Leu Trp Glu Asp Gly Arg Ser Thr Leu Leu Pro Met Glu  
65 70 75 80

Pro Pro Asp Gly Trp Glu Ile Asn Pro Gly Gly Pro Ala Glu Gln Arg  
85 90 95

Pro Xaa Asp His Leu Gln His Asp His Leu Asp Ser Thr His Glu Thr  
100 105 110

Thr Lys Tyr Leu Ser Glu Ala Trp Pro Lys Asp Gly Gly Asn Gly Thr  
115 120 125

Ser Pro Asp Phe Ser His Ser Lys Glu Trp Phe His Asp Arg Asp Leu  
130 135 140

Gly Pro Asn Thr Thr Ile Lys Leu Ser  
145 150

<210> 229

<211> 153

<212> PRT

<213> Homo sapiens

<400> 229

Met Ala Ala Thr Gln Thr Gly Thr Cys Leu Met Val Ala Ala Leu Cys  
1 5 10 15

Phe Val Leu Val Leu Gly Ser Leu Val Pro Cys Leu Pro Glu Phe Ser  
20 25 30

Ser Gly Ser Gln Thr Val Lys Glu Asp Pro Leu Ala Ala Asp Gly Val  
35 40 45

Tyr Thr Ala Ser Gln Met Pro Ser Arg Ser Leu Leu Phe Tyr Asp Asp  
50 55 60

Gly Ala Gly Leu Trp Glu Asp Gly Arg Ser Thr Leu Leu Pro Met Glu



65		70		75		80									
Pro	Pro	Asp	Gly	Trp	Glu	Ile	Asn	Pro	Gly	Gly	Pro	Ala	Glu	Gln	Arg
			85						90					95	
Pro	Arg	Asp	His	Leu	Gln	His	Asp	His	Leu	Asp	Ser	Thr	His	Glu	Thr
			100					105					110		
Thr	Lys	Tyr	Leu	Ser	Glu	Ala	Trp	Pro	Lys	Asp	Gly	Gly	Asn	Gly	Thr
			115					120					125		
Ser	Pro	Asp	Phe	Ser	His	Ser	Lys	Glu	Trp	Phe	His	Asp	Arg	Asp	Leu
			130				135					140			
Gly	Pro	Asn	Thr	Thr	Ile	Lys	Leu	Ser							
145					150										

<210> 230  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 230
Met Cys Leu Thr Thr Ala Gly Phe Cys Leu Leu Ala Ile His Ser Phe
1 5 10 15
Ala Leu Gly Val Gln Ser Arg Gln Gln His Ser Val Pro Ile Val Phe
20 25 30
Glu Val Leu Pro Leu Arg Val Pro Glu Pro Ser Arg Val Thr Gly Cys
35 40 45
Ser Ser Phe Phe Gln Thr Lys Val Leu Cys Lys Gln His Leu Leu Gly
50 55 60
Pro Arg Ala Ser Val Asn Ile Val Leu Ala Cys Leu Ala Cys Cys His
65 70 75 80
Arg Lys Gly Leu Cys Val His Ile Pro Ala Asn Leu Met Ser Pro Ser
85 90 95
Ser Ala Lys Leu Tyr His Ser Leu His
100 105

<210> 231  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 231
Phe Cys Leu Ile Trp Ser Ala Tyr Leu Leu Met Cys Leu Phe Leu Phe
1 5 10 15

Cys Leu Phe Tyr Phe Tyr Phe Ser Val Asn Ala Arg Thr Asp Leu His  
20 25 30

Val Lys Ser Gly Leu  
35

<210> 232  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 232  
Met Cys Leu Thr Thr Ala Gly Phe Cys Leu Leu Ala Ile His Ser Phe  
1 5 10 15

Ala Leu Gly Val Gln Ser Arg Gln Gln His Ser Val Pro Ile Val Phe  
20 25 30

Glu Val Leu Pro Leu Arg Val Pro Glu Pro Ser Arg Val Thr Gly Cys  
35 40 45

Ser Ser Phe Phe Gln Thr Lys Val Leu Cys Lys Gln His Leu Leu Gly  
50 55 60

Pro Arg Ala Ser Val Asn Ile Val Leu Ala Cys Leu Ala Cys Cys His  
65 70 75 80

Arg Lys Gly Leu Cys Val His Ile Pro Ala Asn Leu Met Ser Pro Ser  
85 90 95

Ser Ala Lys Leu Tyr His Ser Leu His  
100 105

<210> 233  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 233  
Tyr Ser Pro Leu Cys  
1 5

<210> 234  
<211> 40  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 234

Met	Ala	Tyr	Ser	Pro	Leu	Leu	Ile	Ser	Leu	Val	Leu	Ala	Phe	Xaa	Pro
1				5				10						15	

Ala	Ser	Thr	Tyr	Gly	Arg	Ala	Ser	Ile	Asp	Phe	Thr	Cys	Phe	Pro	Asn
			20					25					30		

His	Tyr	Gly	Ile	Ser	Asn	Gln	Tyr
		35				40	

<210> 235

<211> 160

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 235

Phe	Phe	Asp	Ser	Ile	Gly	Ala	Leu	Val	Pro	Gln	Phe	Leu	Ala	Asn	Asp
1				5				10						15	

Asp	Glu	Leu	Ser	Ser	His	Thr	Tyr	Gly	Leu	Leu	Val	Asn	Lys	Asn	Asn
			20					25					30		

His	Leu	Gly	His	Leu	Ala	Val	Cys	Ile	Ser	Gln	Cys	Ile	Trp	Gly	Leu
		35					40					45			

Leu	Ser	Pro	Cys	Glu	Leu	Xaa	Gly	Ile	Ser	Leu	Gly	Ser	Ile	Ile	Leu
	50					55					60				

Phe	Cys	Pro	Thr	Pro	Cys	Ser	Met	Gln	Thr	Pro	Ser	Pro	Ala	Cys	Trp
65					70				75					80	

Ser	Pro	Ser	Gly	Asn	Pro	Gly	Leu	Ala	His	Thr	Leu	Cys	Trp	Arg	Ala
				85					90					95	

Cys	Thr	Leu	Met	Pro	Leu	Leu	Arg	Leu	Gly	Pro	Tyr	Leu	Val	Thr	Leu
			100					105					110		

Phe	Ala	Leu	Pro	Ser	Glu	Thr	Glu	Gln	Leu	Ala	Pro	Ser	Ala	Leu	Val
		115					120					125			

Val	Pro	Cys	Glu	Ala	Leu	Leu	Leu	Ser	Gly	Phe	Leu	His	Arg	Asp	Pro
	130					135					140				

Cys	Arg	Leu	Pro	Ala	Asp	Met	Gln	Asp	Ala	Leu	Leu	Ser	Val	Asp	Val
145					150					155					160

<210> 236  
<211> 40  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 236  
Met Ala Tyr Ser Pro Leu Leu Ile Ser Leu Val Leu Ala Phe Xaa Pro  
1 5 10 15  
Ala Ser Thr Tyr Gly Arg Ala Ser Ile Asp Phe Thr Cys Phe Pro Asn  
20 25 30  
His Tyr Gly Ile Ser Asn Gln Tyr  
35 40

<210> 237  
<211> 236  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (70)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 237

Met	Glu	Xaa	Pro	Ala	Gln	Leu	Leu	Phe	Leu	Leu	Leu	Leu	Trp	Leu	Pro
1				5				10						15	

Asp	Thr	Thr	Gly	Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Xaa	Thr	Leu	Ser
			20					25					30		

Leu	Ser	Pro	Gly	Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser
		35					40					45			

Val	Ser	Ser	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro
	50					55					60				

Arg	Leu	Leu	Ile	Tyr	Xaa	Ala	Ser	Xaa	Arg	Ala	Thr	Gly	Ile	Pro	Xaa
65					70				75						80

Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser
			85						90					95	

Xaa	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Arg	Xaa
		100						105					110		

Asn	Trp	Pro	Pro	Xaa	Tyr	Thr	Phe	Gly	Xaa	Gly	Thr	Lys	Val	Glu	Ile
		115					120					125			

Lys	Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp
	130					135					140				

Glu	Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn
145					150					155					160

Phe	Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu
				165					170					175	

Gln	Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp
			180					185					190		

Ser	Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr
		195					200					205			

Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser  
210 215 220

Ser Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
225 230 235

<210> 238  
<211> 144  
<212> PRT  
<213> Homo sapiens

<400> 238  
Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu Ser  
1 5 10 15

Gly Ala Lys Cys Asp Thr Gln Met Thr Gln Ser Pro Ser Ser Leu Ser  
20 25 30

Ala Ser Val Gly Asp Thr Val Thr Ile Thr Cys Gln Ala Ser Asp Asp  
35 40 45

Ile Ser Lys Asp Leu Asn Trp Phe Gln Gln Lys Pro Gly Thr Ala Pro  
50 55 60

Lys Leu Leu Ile Phe Asp Ala Ser Asn Leu Glu Thr Gly Val Pro Ser  
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser  
85 90 95

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp  
100 105 110

Asn Pro Pro Ser Leu Ser Ala Glu Gly Pro Lys Trp Arg Ser Asn Glu  
115 120 125

Leu Trp Leu His His Leu Ser Ser Ser Ser Arg His Leu Met Ser Ser  
130 135 140

<210> 239  
<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>

<221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 239  
 Val His Ala Xaa Thr Pro Phe Ala Gly Xaa Cys Phe Asp Pro Val Ser  
   1                  5                  10                  15  
 Leu Tyr Trp Cys Tyr Xaa Asn Pro Gly Thr His Cys Tyr Pro Thr Leu  
                   20                  25                  30  
 Arg Gly Xaa Glu Gln Arg Xaa Pro Ser Xaa Arg Ser His Ile Val Leu  
           35                  40                  45  
 Arg Ser  
       50

<210> 240  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 240  
 Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp  
   1                  5                  10                  15  
 Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His  
                   20                  25                  30  
 Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg  
           35                  40                  45  
 Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile  
       50                  55                  60

<210> 241  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 241  
Met Ser Phe Pro His Ala Ser Thr Leu Pro Phe His Lys Leu Ser Asp  
1 5 10 15  
Leu Gln His Thr Leu Pro Asn His Gln Gly  
20 25

<210> 242  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 242  
Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp  
1 5 10 15  
Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His  
20 25 30  
Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg  
35 40 45  
Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile  
50 55 60

<210> 243  
<211> 61  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (27)  
<223> Xaa equals any of the naturally occurring L-amino acids



<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 243

Phe Asn Phe Lys Phe Ala His Arg Pro Ser Asn Pro Leu Val Asn Leu  
1 5 10 15

Thr Val Ser Pro Xaa Arg Asn Ser Ser Leu Xaa Thr Arg Lys Xaa Pro  
20 25 30

Cys Arg Glu Ser Lys Lys Phe Asn Thr His Ser Arg Pro Lys Ser Ser  
35 40 45

His Gln Leu Arg Lys Arg Ser Ser Ser Thr Pro Thr Thr  
50 55 60

<210> 244

<211> 56

<212> PRT

<213> Homo sapiens

<400> 244

Met Leu Ile Phe Leu Lys Cys Leu Thr Val Ser Tyr Ala Lys Tyr Ser  
1 5 10 15

Ser Lys Ile Tyr Thr Ala Val Ser Asn Thr Phe Ser Thr Ala Ser Asp  
20 25 30

Ser Trp Leu Cys Val Lys Thr Pro Arg Gly Tyr His Trp Phe Met Ser  
35 40 45

Leu Glu Thr Pro Asp Ile Glu Gln  
50 55

<210> 245

<211> 10

<212> PRT

<213> Homo sapiens

<400> 245

Val Leu Leu Phe Leu Ser Leu Leu Thr Ser  
1 5 10

<210> 246

<211> 56

<212> PRT

<213> Homo sapiens

<400> 246

Met Leu Ile Phe Leu Lys Cys Leu Thr Val Ser Tyr Ala Lys Tyr Ser  
1 5 10 15  
Ser Lys Ile Tyr Thr Ala Val Ser Asn Thr Phe Ser Thr Ala Ser Asp  
20 25 30  
Ser Trp Leu Cys Val Lys Thr Pro Arg Gly Tyr His Trp Phe Met Ser  
35 40 45  
Leu Glu Thr Pro Asp Ile Glu Gln  
50 55

<210> 247  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 247  
Glu Asp Met Pro Arg Arg Lys Glu Glu Leu Thr Asp Tyr Gln Lys Lys  
1 5 10 15  
Lys Val Ile Leu Gln Asn Leu Lys His Ser Leu Phe Leu Ser Leu Leu  
20 25 30  
Ser His Tyr Phe Tyr Ser Asn Pro Leu Glu Tyr Leu His Phe Ala Ser  
35 40 45  
Glu Gln Arg Asp Lys Phe Phe Ser His His Val Cys Thr Gly Val Val  
50 55 60  
Leu Ile Leu Asp Ile Ala Gly Thr Asn Phe Ser  
65 70 75

<210> 248  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 248  
Met Ile Tyr Phe Ala Leu Leu Leu Ala Ser Leu Phe Phe Leu Leu Lys  
1 5 10 15  
Val Lys Ser His Phe Gly Cys Lys Asn Val Thr Thr Thr Ser Ala Arg  
20 25 30  
Ile Phe Leu Lys Pro Leu Cys Thr Pro Lys Ser Ile Phe Pro Leu Ser  
35 40 45  
Arg Tyr Gly Arg Met Ser Ser  
50 55

<210> 249  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 249  
Met Ile Tyr Phe Ala Leu Leu Leu Ala Ser Leu Phe Phe Leu Leu Lys  
1 5 10 15  
Val Lys Ser His Phe Gly Cys Lys Asn Val Thr Thr Thr Ser Ala Arg  
20 25 30  
Ile Phe Leu Lys Pro Leu Cys Thr Pro Lys Ser Ile Phe Pro Leu Ser  
35 40 45  
Arg Tyr Gly Arg Met Ser Ser  
50 55

<210> 250  
<211> 85  
<212> PRT  
<213> Homo sapiens

<400> 250  
Met Leu His Asn Ala Phe Leu Phe Val Leu Phe Ala Leu Val Ser Gly  
1 5 10 15  
Tyr Gly Asn Tyr Ala Ala Thr Ala His Asp Trp Leu Tyr Glu Asn Gly  
20 25 30  
Gln Leu Ser Arg Lys Glu Ala Asp Ala Val Leu Tyr Arg Ala Leu Arg  
35 40 45  
Ala Glu Gly Val Ala Arg Trp Arg Ala Trp Leu Met Tyr Ala Gly Val  
50 55 60  
Arg Leu Gly Gly Ala Lys Gln Tyr Lys Thr Pro Thr Ser Ser Gly Phe  
65 70 75 80  
Ser Ser Ser Gly Asp  
85

<210> 251  
<211> 85  
<212> PRT  
<213> Homo sapiens

<400> 251  
Met Leu His Asn Ala Phe Leu Phe Val Leu Phe Ala Leu Val Ser Gly  
1 5 10 15  
Tyr Gly Asn Tyr Ala Ala Thr Ala His Asp Trp Leu Tyr Glu Asn Gly  
20 25 30

Gln Leu Ser Arg Lys Glu Ala Asp Ala Val Leu Tyr Arg Ala Leu Arg  
35 40 45

Ala Glu Gly Val Ala Arg Trp Arg Ala Trp Leu Met Tyr Ala Gly Val  
50 55 60

Arg Leu Gly Gly Ala Lys Gln Tyr Lys Thr Pro Thr Ser Ser Gly Phe  
65 70 75 80

Ser Ser Ser Gly Asp  
85

<210> 252  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 252  
Met Ile Ile Ala Asn Ile Phe Met Asn Pro Leu Leu Cys Ala Gly Tyr  
1 5 10 15

Leu Phe Cys Phe Ala Tyr Thr Leu Ile His Leu Ile Leu Leu Thr Thr  
20 25 30

Ser Glu Val Cys Ser Ile Thr Ala Pro Phe Phe Thr Ala Val Leu Gln  
35 40 45

Ser Ser Ala Cys Pro Ser Thr His Trp Pro Glu  
50 55

<210> 253  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 253  
Met Ile Ile Ala Asn Ile Phe Met Asn Pro Leu Leu Cys Ala Gly Tyr  
1 5 10 15

Leu Phe Cys Phe Ala Tyr Thr Leu Ile His Leu Ile Leu Leu Thr Thr  
20 25 30

Ser Glu Val Cys Ser Ile Thr Ala Pro Phe Phe Thr Ala Val Leu Gln  
35 40 45

Ser Ser Ala Cys Pro Ser Thr His Trp Pro Glu  
50 55

<210> 254  
<211> 67

<212> PRT

<213> Homo sapiens

<400> 254

Met Leu Phe Leu Ile Tyr Val Ser Leu Leu Met Leu Leu Phe Ser Leu  
1 5 10 15

Cys Leu Ser Leu Pro His Leu Gln Pro Pro Ser Leu Arg Glu Ile Leu  
20 25 30

Ile Pro Val His Ser Leu Arg Phe Ser Leu Val Ser Pro Leu His Gly  
35 40 45

Ser Leu Ala Ser Ser Leu Leu Leu Gln His Cys Gly Thr Leu Arg Gln  
50 55 60

Val Phe Phe  
65

<210> 255

<211> 67

<212> PRT

<213> Homo sapiens

<400> 255

Met Leu Phe Leu Ile Tyr Val Ser Leu Leu Met Leu Leu Phe Ser Leu  
1 5 10 15

Cys Leu Ser Leu Pro His Leu Gln Pro Pro Ser Leu Arg Glu Ile Leu  
20 25 30

Ile Pro Val His Ser Leu Arg Phe Ser Leu Val Ser Pro Leu His Gly  
35 40 45

Ser Leu Ala Ser Ser Leu Leu Leu Gln His Cys Gly Thr Leu Arg Gln  
50 55 60

Val Phe Phe  
65

<210> 256

<211> 86

<212> PRT

<213> Homo sapiens

<400> 256

Ser Leu Lys His Phe Trp Ser Gln Gly Phe Trp Ile Lys Asp Thr Gln  
1 5 10 15

Cys Ala Thr Cys Arg Met Val Val Ala Arg Trp Glu Glu Arg Met Glu  
20 25 30

Ser Tyr Cys Leu Met Ile Gln Cys Phe Arg Leu Gly Arg Trp Lys Val

35	40	45
Leu Glu Met Cys Asp Gly Tyr Gly Cys Ala Thr Met Gly Arg Tyr Leu		
50	55	60
Val Leu Leu Asn Cys Ala His Leu Lys Met Val Lys Met Ile Asn Phe		
65	70	75
		80
Val Tyr Val Leu Lys Gln		
	85	

<210> 257  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 257
Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
1 5 10 15
Cys Trp Leu Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
20 25 30
Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
35 40 45
Gln Tyr Phe Pro
50

<210> 258  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 258
Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
1 5 10 15
Cys Trp Leu Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
20 25 30
Ile Ser Leu Arg Ala Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
35 40 45

Gln Tyr Phe Pro  
50

<210> 259  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 259  
Met Leu Cys Val Leu Leu Ala Val Ala Phe Gln Ser Ser Pro Ile Pro  
1 5 10 15

Gly Ala Ala Ala  
20

<210> 260  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 260  
Met Ala Leu Phe Arg Pro Ile Leu Leu Pro Ala Pro Gly Ala Trp Trp  
1 5 10 15

Trp Pro Cys His His Ala Leu Cys Pro Ser Gly Cys Gly Phe Pro Glu  
20 25 30

Gln Pro His Ser Arg Cys Ser Ser Leu Glu Leu Gln Ser Ala Ser Arg  
35 40 45

Gln Cys Trp Leu Gln Trp Leu Gly Asp Ile Arg Pro Leu Leu Leu Gln  
50 55 60

Gly Arg Glu Val Thr  
65

<210> 261  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (34)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 261  
Met Gly Leu Ile Ala Ala Asp Val Asn Leu Asp Leu Leu Val Gln Val  
1 5 10 15

Val Pro Ala Ser Cys Leu His Cys Gly Val Thr Ile Phe Pro Phe Pro  
20 25 30

His Xaa Ile His Gln Lys Pro Val Thr Lys Arg Gly Gln Thr Pro Gly  
35 40 45

Gln Gly Asn  
50

<210> 262  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 262  
Met Gly Leu Ile Ala Ala Asp Val Asn Leu Asp Leu Leu Val Gln Val  
1 5 10 15

Val Pro Ala Ser Cys Leu His Cys Gly Val Thr Ile Phe Pro Phe Pro  
20 25 30

His Phe Ile His Gln Lys Pro Val Thr Lys Arg Gly Gln Thr Pro Gly  
35 40 45

Gln Gly Asn  
50

<210> 263  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 263  
Ser Cys Ile Ser Trp Val Phe Val Met Ile Asn Gly Leu  
1 5 10

<210> 264  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 264  
Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys  
1 5 10 15

Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser  
20 25 30

Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu  
35 40 45



Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu  
50 55 60

<210> 265  
<211> 322  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 265  
Arg Ala Pro Arg Arg Thr Gly Pro Ala Ser Phe Ser Ser Arg Pro Ala  
1 5 10 15  
Gly Thr Cys Ser Asp Asn Arg Val Thr Ser Phe Xaa Asp Leu Ile His  
20 25 30  
Asp Gln Asp Glu Asp Glu Glu Glu Glu Gly Gln Arg Phe Tyr Ala  
35 40 45  
Gly Gly Ser Glu Arg Ser Gly Gln Gln Ile Val Gly Pro Pro Arg Lys  
50 55 60  
Lys Ser Pro Asn Glu Leu Val Asp Asp Leu Phe Lys Gly Ala Lys Glu  
65 70 75 80  
His Gly Ala Val Ala Val Glu Arg Val Thr Lys Ser Pro Gly Glu Thr  
85 90 95  
Ser Lys Pro Arg Pro Phe Ala Gly Gly Gly Tyr Arg Leu Gly Ala Ala  
100 105 110  
Pro Glu Glu Glu Ser Ala Tyr Val Ala Gly Glu Lys Arg Gln His Ser  
115 120 125  
Ser Gln Asp Val His Val Val Leu Lys Leu Trp Lys Ser Gly Phe Ser  
130 135 140  
Leu Asp Asn Gly Glu Leu Arg Ser Tyr Gln Asp Pro Ser Asn Ala Gln  
145 150 155 160  
Phe Leu Glu Ser Ile Arg Arg Gly Glu Val Pro Ala Glu Leu Arg Arg  
165 170 175  
Leu Ala His Gly Gly Gln Val Asn Leu Asp Met Glu Asp His Arg Asp  
180 185 190  
Glu Asp Phe Val Lys Pro Lys Gly Ala Phe Lys Ala Phe Thr Gly Glu  
195 200 205  
Gly Gln Lys Leu Gly Ser Thr Ala Pro Gln Val Leu Ser Thr Ser Ser  
210 215 220

Pro Ala Gln Gln Ala Glu Asn Glu Ala Lys Ala Ser Ser Ser Ile Leu  
 225 230 235 240  
 Ile Asp Glu Ser Glu Pro Thr Thr Asn Ile Gln Ile Arg Leu Ala Asp  
 245 250 255  
 Gly Gly Arg Leu Val Gln Lys Phe Asn His Ser His Arg Ile Ser Asp  
 260 265 270  
 Ile Arg Leu Phe Ile Val Asp Ala Arg Pro Ala Met Ala Ala Thr Ser  
 275 280 285  
 Phe Ile Leu Met Thr Thr Phe Pro Asn Lys Glu Leu Ala Asp Glu Ser  
 290 295 300  
 Gln Thr Leu Lys Glu Ala Asn Leu Leu Asn Ala Val Ile Val Gln Arg  
 305 310 315 320  
 Leu Thr

<210> 266  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 266  
 Met Asn Ala Ser Leu Ile Ser Trp Val Leu Val Leu His Arg Ile Cys  
 1 5 10 15  
 Leu Gly Leu Ser Asp Ile Pro Lys Glu Asn Cys Ile Ile Thr Ile Ser  
 20 25 30  
 Gly Met Gln Leu Ser His His Gly Gln Ser Leu Gly Lys Trp Ala Glu  
 35 40 45  
 Lys Leu His Val Phe Tyr Ser Leu Phe Ser Phe Leu Leu  
 50 55 60

<210> 267  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 267  
 Pro Asn Ser Pro  
 1

<210> 268  
 <211> 64

<212> PRT  
<213> Homo sapiens

<400> 268

Met	Asp	Pro	Lys	Leu	Pro	Val	Ile	Thr	Ile	Ile	Ile	Ile	Ile	Ile	Ala
1				5					10						15
Tyr	Ala	Phe	Val	Glu	Pro	Leu	Leu	Cys	Thr	Trp	Pro	Val	Thr	Gly	Thr
			20					25					30		
Leu	Ser	Val	Thr	Gln	Met	Gln	Val	Ser	His	Leu	Thr	Leu	Ala	Ser	Thr
			35				40					45			
Leu	Arg	Asp	Gly	Phe	Tyr	Gln	His	Pro	His	Phe	Thr	Asp	Glu	Glu	Asn
	50					55					60				

<210> 269  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 269

Met	Asp	Pro	Lys	Leu	Pro	Val	Ile	Thr	Ile	Ile	Ile	Ile	Ile	Ile	Ala
1				5					10						15
Tyr	Ala	Phe	Val	Glu	Pro	Leu	Leu	Cys	Thr	Trp	Pro	Val	Thr	Gly	Thr
			20					25					30		
Leu	Ser	Val	Thr	Gln	Met	Gln	Val	Ser	His	Leu	Thr	Leu	Ala	Ser	Thr
			35				40					45			
Leu	Arg	Asp	Gly	Phe	Tyr	Gln	His	Pro	His	Phe	Thr	Asp	Glu	Glu	Asn
	50					55					60				

<210> 270  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 270

Met	Val	Ser	Leu	Cys	Ser	Gly	Leu	Pro	Ser	Ser	Cys	Leu	Leu	Leu	Gly
1				5					10						15
Ser	Thr	Ala	Ala	Ile	Ile	Gln	Arg	Gln	Val	Cys	Leu	Phe	Gln	Gly	Ala
			20					25					30		
Arg	Gln	Trp	Asn	Pro	Val	Ser	Glu	Phe	Leu	Arg	Ala	His	His	His	Cys

	35		40		45
Gly	Asn	Arg	Ala	Gly	Leu
	50		55		
Pro Ala Val Leu					

<210> 271  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 271  
 Met Val Ser Leu Cys Ser Gly Leu Pro Ser Ser Cys Leu Leu Leu Gly  
 1 5 10 15  
 Ser Thr Ala Ala Ile Ile Gln Arg Gln Val Cys Leu Phe Gln Gly Ala  
 20 25 30  
 Arg Gln Trp Asn Pro Val Ser Glu Phe Leu Arg Ala His His His Cys  
 35 40 45  
 Gly Asn Arg Ala Gly Leu Pro Ala Val Leu  
 50 55

<210> 272  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (73)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 272  
 Lys Ala Pro Ser Ser His Pro Gly Leu Thr Cys Val Ser Leu Ser Arg  
 1 5 10 15  
 Leu Gln Xaa Ser Leu Ser Leu Cys Phe Pro Ser Gly Pro Cys Trp Ala  
 20 25 30  
 Gly Leu Leu Ser Ser Leu Ala Leu Ala Gly Gly Ala Pro Gly Ala Leu  
 35 40 45  
 Pro Pro Trp Gln Pro Gly Gln Asp Ser Lys Met Arg Thr Ala Glu Leu  
 50 55 60  
 Val Gly Gly Ser His Gly Pro Ala Xaa Gly Pro Gly Glu Ala Glu Pro  
 65 70 75 80

Glu Pro Thr Ala Val Val Leu Trp Thr Val Asp Pro Glu Gly Gly Leu  
85 90 95

Gly Gln Val Pro Ala Glu Gly Pro Gly Gly Leu Cys Val Pro Leu Gly  
100 105 110

Pro Gly Ala Leu Val Thr Trp Thr Pro Gly  
115 120

<210> 273  
<211> 130  
<212> PRT  
<213> Homo sapiens

<400> 273  
Ser Thr Cys Cys Gly Trp Gly Pro Leu Gly His Ser Arg Val Arg Gly  
1 5 10 15

Cys His Cys His Leu Gly His Val Gly Arg His Gln His Phe Val Val  
20 25 30

Thr Asn Ser Thr Val Thr Asn Ile Phe Gly Gln Ile Pro Phe Tyr Thr  
35 40 45

Ser Arg Gln Leu Leu Val Cys Asn Pro Thr Gly Gln Arg Glu Gly Pro  
50 55 60

Val Thr Trp Leu Ser His Cys Pro Ala Pro Gln Met Val Leu Gly Leu  
65 70 75 80

Leu Phe Ser Leu Gly Pro Ala Asn Thr Thr Val Phe Thr Ser Ala His  
85 90 95

Trp Leu Ser Ala Val Val Pro Gly Ser Gln Trp His Val Ser Pro Arg  
100 105 110

Ser Ser Leu Ile Pro Gln His Thr Pro Lys Gly Ser Val Ala Asn Thr  
115 120 125

Leu Asn  
130

<210> 274  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 274  
Met Arg Leu Arg Asn Gly Thr Val Ala Thr Ala Leu Ala Phe Ile Thr  
1 5 10 15

Ser Phe Leu Thr Leu Ser Trp Tyr Thr Thr Trp Gln Asn Gly Lys Gly

20

25

30

Lys Glu Asn Asp Ser Glu Asn Val His Glu Met Tyr  
 35 40

&lt;210&gt; 275

&lt;211&gt; 216

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (18)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 275

Cys Phe Pro Trp Gly Xaa Ala Leu Arg Gln Lys Leu Phe Pro Ser Ala  
 1 5 10 15

Leu Xaa Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala Thr Lys  
 20 25 30

Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser Leu Val  
 35 40 45

Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu Ser Gln  
 50 55 60

Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp Ala Arg  
 65 70 75 80

Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn Arg Phe  
 85 90 95

Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu Arg Pro  
 100 105 110

Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser Ser Ser  
 115 120 125

Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val Ala Leu  
 130 135 140

Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu His Gly  
 145 150 155 160

Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His Ser Met  
 165 170 175

Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser Thr Ser



His Trp Ala Xaa Lys Thr Ser Trp Cys Lys  
115 120

<210> 277  
<211> 282  
<212> PRT  
<213> Homo sapiens

<400> 277  
Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu  
1 5 10 15  
Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His  
20 25 30  
Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln  
35 40 45  
Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser  
50 55 60  
Ala Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser  
65 70 75 80  
Ser Ala Leu Val Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala  
85 90 95  
Thr Lys Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser  
100 105 110  
Leu Val Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu  
115 120 125  
Ser Gln Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp  
130 135 140  
Ala Arg Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn  
145 150 155 160  
Arg Phe Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu  
165 170 175  
Arg Pro Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser  
180 185 190  
Ser Ser Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val  
195 200 205  
Ala Leu Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu  
210 215 220  
His Gly Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His  
225 230 235 240  
Ser Met Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser



	245		250		255
Thr	Ser	Ser	Gly	Gln	Pro
			260		
				Gln	Asp
				265	
					Met
					Leu
					Cys
					Leu
					270
					Gly
					Gly
Val	Ala	Val	Ser	Leu	Ser
					His
					Ile
					280
					Arg
					Asn

<210> 278  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 278															
Met	Ala	Phe	Gly	Gln	Glu	Val	Thr	His	Leu	Thr	Lys	Thr	Ser	Trp	Leu
1				5					10					15	
Ala	Pro	Leu	Arg	Phe	Ile	Lys	Gly	Leu	Leu	Gly	Pro	Trp	Gly	Trp	Ile
			20					25					30		
Leu	Leu	Ile	Leu	Asp	Leu	Glu									
			35												

<210> 279  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 279															
Met	Ala	Phe	Gly	Gln	Glu	Val	Thr	His	Leu	Thr	Lys	Thr	Ser	Trp	Leu
1				5					10					15	
Ala	Pro	Leu	Arg	Phe	Ile	Lys	Gly	Leu	Leu	Gly	Pro	Trp	Gly	Trp	Ile
			20					25					30		
Leu	Leu	Ile	Leu	Asp	Leu	Glu									
			35												

<210> 280  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 280															
Gly	Leu	Asp	Val	Gln	Pro	Val	Ala	Gln	Gly	Ser	Lys	Leu	Thr	Gln	Glu
1				5					10					15	
Val	Arg	Glu	Gly	Cys	Leu	Ala	Val	Ala	Gly	Ala	Asn	Gly	Phe	Arg	Gly
			20					25					30		
Gly	Tyr	Asp	Gly	Tyr	Arg	Pro	Ser	Phe	Ser	Asn	Thr	Pro	Asn	Ser	Gly



<210> 283  
<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 283  
Met Asn Phe Leu Val Phe Leu Ser Leu Ser Ser Ser Leu Val Ser Ala  
1 5 10 15  
Ala Gly Pro Arg Phe Pro Ser Arg Glu Glu Arg Gly Val Gly Gly Val  
20 25 30  
Val Leu Ile Lys Ser Glu Asp Met Thr Leu Xaa Glu Arg Ser Lys Gly  
35 40 45  
Ser Xaa  
50

<210> 284  
<211> 240  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 284  
Gly Glu Gly Asp Asp Lys Glu Glu Ser Val Glu Lys Leu Asp Cys His  
1 5 10 15  
Tyr Ser Gly His His Pro Gln Pro Ala Ser Phe Cys Thr Phe Gly Ser  
20 25 30  
Arg Gln Ile Gly Arg Gly Tyr Tyr Val Phe Asp Ser Arg Trp Asn Arg  
35 40 45  
Leu Arg Cys Ala Leu Asn Leu Met Val Glu Lys His Leu Asn Ala Gln  
50 55 60  
Leu Trp Xaa Lys Ile Pro Pro Val Pro Ser Thr Thr Ser Pro Ile Ser  
65 70 75 80



<210> 286  
<211> 56  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 286  
Phe Ala Xaa Xaa Asp Gly Phe Gln Leu His Pro Cys Pro Xaa Lys Gly  
1 5 10 15  
His Glu Leu Ile Xaa Phe Tyr Gly Cys Ile Val Phe His Gly Val Tyr  
20 25 30  
Val Pro His Phe Leu Asn Leu Val Cys His Cys Trp Thr Phe Gly Leu  
35 40 45  
Val Pro Ser Leu Cys Tyr Cys Glu  
50 55

<210> 287  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 287  
Met Ser Trp Leu Phe Pro Ala Thr Ile Leu Phe Glu Glu Lys Ile Cys  
1 5 10 15  
Phe Ser Leu Phe Pro Arg Lys Leu Val Gly Gln His Gly His Tyr Ser  
20 25 30  
Ser Cys Ala Val Thr Pro Ala Pro Arg Cys Leu Glu Leu Ser Val Leu  
35 40 45  
Thr Phe Met His Asp Cys Lys Ala Ser Trp Ser Ile Phe Tyr Gly Ala

50 55 60  
 Ser Val Cys Phe Arg Pro Met Thr Phe Val Arg  
 65 70 75

<210> 288  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 288  
 Met Ser Trp Leu Phe Pro Ala Thr Ile Leu Phe Glu Glu Lys Ile Cys  
 1 5 10 15  
 Phe Ser Leu Phe Pro Arg Lys Leu Val Gly Gln His Gly His Tyr Ser  
 20 25 30  
 Ser Cys Ala Val Thr Pro Ala Pro Arg Cys Leu Glu Leu Ser Val Leu  
 35 40 45  
 Thr Phe Met His Asp Cys Lys Ala Ser Trp Ser Ile Phe Tyr Gly Ala  
 50 55 60  
 Ser Val Cys Phe Arg Pro Met Thr Phe Val Arg  
 65 70 75

<210> 289  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 289  
 Ile Val Leu Lys Tyr Ile Met Ala Gly Cys Pro Leu Phe Leu Gly Asn  
 1 5 10 15  
 Leu Trp Asp Val Thr Asp Arg Asp Ile Asp Arg Tyr Thr Glu Ala Leu  
 20 25 30  
 Leu Gln Gly Trp Leu Gly Ser Arg Pro Arg Ala Pro Leu Leu Tyr Tyr  
 35 40 45  
 Val Asn Gln Ala Arg Gln Ala Pro Arg Leu Lys Tyr Leu Ile Gly Ala  
 50 55 60  
 Ala Pro Ile Pro Met Ala Cys Leu Ser Leu Cys Gly Asn Pro Met Glu  
 65 70 75 80  
 Leu Ser Tyr

<210> 290

<211> 223  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 290  
Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Ala Tyr  
1 5 10 15  
Leu Ser Leu Pro Ser Asn Asn Leu Ser His Ser Leu Trp Glu Gln Leu  
20 25 30  
Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His  
35 40 45  
Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser Asp Ile Leu  
50 55 60  
Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu  
65 70 75 80  
Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser  
85 90 95  
Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala  
100 105 110  
Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile  
115 120 125  
Pro Arg Gln Xaa Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu  
130 135 140  
Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu  
145 150 155 160  
Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu  
165 170 175  
Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln  
180 185 190  
Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly  
195 200 205  
Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro  
210 215 220

<210> 291  
<211> 8  
<212> PRT

<213> Homo sapiens

<400> 291

Ala Trp Phe Leu Val Lys Pro Glu  
1 5

<210> 292

<211> 223

<212> PRT

<213> Homo sapiens

<400> 292

Ala Trp Tyr Leu Leu Arg Val Gln Val Leu Gln Leu Val Ala Ala Tyr  
1 5 10 15

Leu Ser Leu Pro Ser Asn Asn Leu Ser His Ser Leu Trp Glu Gln Leu  
20 25 30

Cys Ala Gln Gly Trp Gln Thr Pro Glu Ile Ala Leu Ile Asp Ser His  
35 40 45

Lys Leu Leu Arg Ser Ile Ile Leu Leu Leu Met Gly Ser Asp Ile Leu  
50 55 60

Ser Thr Gln Lys Ala Ala Val Glu Thr Ser Phe Leu Asp Tyr Gly Glu  
65 70 75 80

Asn Leu Val Gln Lys Trp Gln Val Leu Ser Glu Val Leu Ser Cys Ser  
85 90 95

Glu Lys Leu Val Cys His Leu Gly Arg Leu Gly Ser Val Ser Glu Ala  
100 105 110

Lys Ala Phe Cys Leu Glu Ala Leu Lys Leu Thr Thr Lys Leu Gln Ile  
115 120 125

Pro Arg Gln Cys Ala Leu Phe Leu Val Leu Lys Gly Glu Leu Glu Leu  
130 135 140

Ala Arg Asn Asp Ile Asp Leu Cys Gln Ser Asp Leu Gln Gln Val Leu  
145 150 155 160

Phe Leu Leu Glu Ser Cys Thr Glu Phe Gly Gly Val Thr Gln His Leu  
165 170 175

Asp Ser Val Lys Lys Val His Leu Gln Lys Gly Lys Gln Gln Ala Gln  
180 185 190

Val Pro Cys Pro Pro Gln Leu Pro Glu Glu Glu Leu Phe Leu Arg Gly  
195 200 205

Pro Ala Leu Glu Leu Val Pro Leu Trp Pro Arg Ser Leu Ala Pro  
210 215 220



<210> 293  
<211> 88  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 293  
Ala Asp Pro Ser Pro Ser Xaa Trp Leu Gln Thr His Arg Gly Pro Arg  
1 5 10 15  
Leu Leu Trp Pro His His Gln Gln Leu Leu Leu Ser Phe Xaa Glu Pro  
20 25 30  
Arg Lys Pro Leu Ile Leu Leu Leu Pro Val Xaa Ala Pro Xaa Ser Leu  
35 40 45  
Lys Pro His Ser Cys Ile Pro Phe Ser Leu Asp Ile Thr Pro Pro Thr  
50 55 60  
Pro Trp Leu Asn Phe Leu Pro Val Val Ala Trp Ser Phe Gly His Cys  
65 70 75 80  
Pro Gly Leu Phe Leu Ser Pro Ser  
85

<210> 294  
<211> 80  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (61)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 294  
Met His His His Thr Arg Leu Val Phe Val Phe Leu Val Glu Met Gly  
1 5 10 15  
Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp  
20 25 30  
Leu Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His  
35 40 45  
Cys Ala Gln Leu Pro Phe Leu Pro Leu Lys Ser Lys Xaa Gly Trp Glu  
50 55 60  
Leu Ser Pro Trp Xaa Phe Met Val Ala Lys Xaa Leu Asn Pro Val Ala  
65 70 75 80

<210> 295  
<211> 18  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 295  
Met Val Ala Xaa Leu Leu Ile Leu Leu Leu Asp Ser Gly Xaa Leu Leu  
1 5 10 15

Ala Gly

<210> 296  
<211> 126

<212> PRT  
<213> Homo sapiens

<400> 296

Ala	Thr	Thr	Ser	Val	Pro	Lys	Tyr	Val	Phe	Asn	Leu	Asn	Phe	Ile	Leu
1				5					10					15	
Met	Cys	Leu	Arg	Asp	Glu	Ser	Lys	Tyr	Met	Leu	Val	Thr	Ser	His	Ser
			20					25					30		
Asn	Val	Glu	Val	Gly	Arg	Trp	Leu	Pro	Gly	Leu	Pro	Ser	Pro	Gly	Arg
		35					40					45			
Ile	Cys	Gly	Glu	Gln	Ser	Asp	Val	His	Pro	Ser	Gly	Leu	Phe	Ser	Ile
	50					55					60				
Asn	Asp	Ser	Leu	Leu	Asp	Leu	Leu	Leu	Leu	Gly	Phe	Arg	Ser	Lys	Arg
65					70					75					80
Gly	Ile	Val	Val	Glu	Asn	Ala	Leu	Leu	Gly	Glu	Gly	Glu	Pro	Glu	Ile
				85					90					95	
His	Lys	Arg	Arg	Leu	Pro	Cys	Ser	Phe	Ala	Tyr	Leu	Ala	Ala	Pro	Arg
			100					105					110		
Leu	Gly	Val	Arg	Ile	Pro	Gly	Phe	Pro	Ser	Leu	Leu	Cys	His		
		115					120					125			

<210> 297  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 297

Met	Pro	Val	Val	Leu	Phe	Gln	Leu	Trp	Leu	Phe	Ile	Leu	Lys	Thr	Asp
1				5					10					15	
Asn	Ala	Phe	Ala	Trp	Leu	Lys	Ile	Arg	Arg						
			20					25							

<210> 298  
<211> 136  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 298

Pro	Ser	Xaa	Met	Leu	Leu	Leu	Trp	Ala	Ser	Ser	Leu	Pro	Thr	Arg	Cys
1				5					10					15	

Asp	Cys	Ser	Phe	Pro	Val	Thr	Pro	Leu	Val	Pro	Leu	Val	His	Val	Ile
			20					25					30		

Cys	Val	Trp	Val	Met	Phe	Pro	Ser	Ala	Ala	Thr	Ala	Ala	Cys	His	Pro
		35					40					45			

Gly	Ala	Gly	Ala	Phe	Phe	Ser	Gln	Gly	Pro	Ser	Pro	Phe	Ser	Arg	Thr
	50					55					60				

Trp	Pro	Xaa	Leu	Gly	His	Arg	Glu	Ile	Pro	Ala	Glu	Gly	Ala	Gly	Glu
65					70					75					80

Thr	Val	Ala	Leu	Gly	Leu	Gln	Pro	Lys	Arg	His	Thr	Leu	Ala	Val	Gly
				85					90					95	

Val	His	Gly	Met	Leu	Ala	Leu	Ser	Thr	Val	Thr	Val	Gly	Gly	Phe	Gly
			100					105					110		

Gly	Phe	Pro	Trp	Thr	Ser	Gly	Pro	Gly	Cys	Pro	Pro	Leu	Ser	Trp	Thr
		115					120					125			

Cys	Phe	Ile	Phe	Pro	Ile	Leu	Thr
	130					135	

<210> 299

<211> 19

<212> PRT

<213> Homo sapiens

<400> 299

Gln	Ile	Trp	Pro	Phe	Leu	Pro	Pro	Ser	Gln	Pro	Ser	Gly	Pro	Leu	Gln
1				5					10					15	

Arg Ala Val

<210> 300

<211> 133

<212> PRT

<213> Homo sapiens

<400> 300

Met	Leu	Leu	Leu	Trp	Ala	Ser	Ser	Leu	Pro	Thr	Arg	Cys	Asp	Cys	Ser
1				5					10					15	

Phe	Pro	Val	Thr	Pro	Leu	Val	Pro	Leu	Val	His	Val	Ile	Cys	Val	Trp
			20					25					30		

Val	Met	Phe	Pro	Ser	Ala	Ala	Thr	Ala	Ala	Cys	His	Pro	Gly	Ala	Gly
		35					40					45			
Ala	Phe	Phe	Ser	Gln	Gly	Pro	Ser	Pro	Phe	Ser	Arg	Thr	Trp	Pro	Leu
	50					55					60				
Leu	Gly	His	Arg	Glu	Ile	Pro	Ala	Glu	Gly	Ala	Gly	Glu	Thr	Val	Ala
65					70					75					80
Leu	Gly	Leu	Gln	Pro	Lys	Arg	His	Thr	Leu	Ala	Val	Gly	Val	His	Gly
				85					90					95	
Met	Leu	Ala	Leu	Ser	Thr	Val	Thr	Val	Gly	Gly	Phe	Gly	Gly	Phe	Pro
		100						105					110		
Trp	Thr	Ser	Gly	Pro	Gly	Cys	Pro	Pro	Leu	Ser	Trp	Thr	Cys	Phe	Ile
		115					120					125			
Phe	Pro	Ile	Leu	Thr											
	130														

<210> 301  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 301  
 Ser Ser Leu Lys Asn Gln Val Ser Val Ser Gln  
 1 5 10

<210> 302  
 <211> 495  
 <212> PRT  
 <213> Homo sapiens

<400> 302  
 Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp  
 1 5 10 15  
 Val Leu Ser Gln Val Glu Leu Gln Glu Ser Gly Pro Gly Leu Val Lys  
 20 25 30  
 Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Val Ser Met  
 35 40 45  
 Ser Arg Gly Asp Trp Ser Trp Ser Trp Val Arg Gln Val Pro Gly Lys  
 50 55 60  
 Gly Leu Glu Trp Ile Gly His Ile Asp Tyr Thr Gly Lys Thr Asp Tyr  
 65 70 75 80  
 Lys Ser Ser Leu Lys Asn Gln Val Ser Ile Ser Gln Asp Thr Ala Lys

85					90					95					
Asn	Gln	Phe	Phe	Leu	Arg	Val	Glu	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala
			100					105					110		
Val	Tyr	Phe	Gys	Ala	Arg	Leu	Phe	Glu	Ser	Ser	Gly	Tyr	Gly	Ala	Trp
		115					120					125			
Leu	Asp	Pro	Trp	Gly	Pro	Gly	Ile	Leu	Val	Thr	Val	Ser	Ser	Ala	Ser
	130					135					140				
Pro	Thr	Ser	Pro	Lys	Val	Phe	Pro	Leu	Ser	Leu	Cys	Ser	Thr	Gln	Pro
145					150					155					160
Asp	Gly	Asn	Val	Val	Ile	Ala	Cys	Leu	Val	Gln	Gly	Phe	Phe	Pro	Gln
				165					170					175	
Glu	Pro	Leu	Ser	Val	Thr	Trp	Ser	Glu	Ser	Gly	Gln	Gly	Val	Thr	Ala
			180					185					190		
Arg	Asn	Phe	Pro	Pro	Ser	Gln	Asp	Ala	Ser	Gly	Asp	Leu	Tyr	Thr	Thr
		195					200					205			
Ser	Ser	Gln	Leu	Thr	Leu	Pro	Ala	Thr	Gln	Cys	Leu	Ala	Gly	Lys	Ser
		210				215					220				
Val	Thr	Cys	His	Val	Lys	His	Tyr	Thr	Asn	Pro	Ser	Gln	Asp	Val	Thr
225					230					235					240
Val	Pro	Cys	Pro	Val	Pro	Ser	Thr	Pro	Pro	Thr	Pro	Ser	Pro	Ser	Thr
				245					250					255	
Pro	Pro	Thr	Pro	Ser	Pro	Ser	Cys	Cys	His	Pro	Arg	Leu	Ser	Leu	His
			260				265						270		
Arg	Pro	Ala	Leu	Glu	Asp	Leu	Leu	Leu	Gly	Ser	Glu	Ala	Asn	Leu	Thr
		275					280					285			
Cys	Thr	Leu	Thr	Gly	Leu	Arg	Asp	Ala	Ser	Gly	Val	Thr	Phe	Thr	Trp
		290				295					300				
Thr	Pro	Ser	Ser	Gly	Lys	Ser	Ala	Val	Gln	Gly	Pro	Pro	Asp	Arg	Asp
305					310					315					320
Leu	Cys	Gly	Cys	Tyr	Ser	Val	Ser	Ser	Val	Leu	Pro	Gly	Cys	Ala	Glu
				325					330					335	
Pro	Trp	Asn	His	Gly	Lys	Thr	Phe	Thr	Cys	Thr	Ala	Ala	Tyr	Pro	Glu
			340				345						350		
Ser	Lys	Thr	Pro	Leu	Thr	Ala	Thr	Leu	Ser	Lys	Ser	Gly	Asn	Thr	Phe
		355				360						365			
Arg	Pro	Glu	Val	His	Leu	Leu	Pro	Pro	Pro	Ser	Glu	Glu	Leu	Ala	Leu
		370				375					380				
Asn	Glu	Leu	Val	Thr	Leu	Thr	Cys	Leu	Ala	Arg	Gly	Phe	Ser	Pro	Lys

385		390		395		400									
Asp	Val	Leu	Val	Arg	Trp	Leu	Gln	Gly	Ser	Gln	Glu	Leu	Pro	Arg	Glu
				405					410					415	
Lys	Tyr	Leu	Thr	Trp	Ala	Ser	Arg	Gln	Glu	Pro	Ser	Gln	Gly	Thr	Thr
			420					425					430		
Thr	Phe	Ala	Val	Thr	Ser	Ile	Leu	Arg	Val	Ala	Ala	Glu	Asp	Trp	Lys
		435					440					445			
Lys	Gly	Asp	Thr	Phe	Ser	Cys	Met	Val	Gly	His	Glu	Ala	Leu	Pro	Leu
	450					455					460				
Ala	Phe	Thr	Gln	Lys	Thr	Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His
465					470					475					480
Val	Asn	Val	Ser	Val	Val	Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr	
			485						490					495	

<210> 303  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 303
Pro Tyr Glu Cys Lys Glu Cys Xaa Lys Ala Phe Arg Val His Val His
1 5 10 15
Leu Thr Gln His Arg Lys Ile His Thr Asp Val Lys Pro Tyr Glu Cys
20 25 30
Lys Glu Cys Gly Lys Thr Phe Ser Arg Ala Ser Tyr Leu Val Gln His
35 40 45
Ser Arg Ile His Thr Gly Lys Lys Pro Tyr Glu Cys Lys Glu Cys Gly
50 55 60
Lys Ala Phe Ser Ser Gly Ser Tyr Leu Val Gln His Gln Arg Ile His
65 70 75 80
Thr Gly Glu Arg Pro Tyr Trp Leu Thr Tyr
85 90

<210> 304  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 304

Gln Arg Ile His Xaa Gly Glu Lys Pro Tyr Glu Cys Asn Lys Cys Gly  
1 5 10 15

Lys Ala Phe Thr Val Tyr Gly Gln Leu Ile Gly His Gln Ser Val His  
20 25 30

Thr Gly Glu Lys Pro Phe Glu Cys Lys Glu Cys Gly Lys Ala Phe Arg  
35 40 45

Leu Asn Ser Phe Leu Thr Glu His Gln Arg Val His Thr Gly Glu Lys  
50 55 60

Pro Phe Lys Cys Lys Lys Cys Gly Lys Thr Phe Arg Tyr Ser Ser Ala  
65 70 75 80

Leu Lys Val His Leu Arg Lys His Met Ser Val Ile Pro  
85 90

<210> 305

<211> 9

<212> PRT

<213> Homo sapiens

<400> 305

Met Trp Val Cys Ser Ile Thr Asp Gln  
1 5

<210> 306

<211> 264

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids



<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (88)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (170)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (171)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 306  
 Thr Trp Gly Lys Xaa Lys Xaa Pro Phe Ile Glu Ser Xaa Pro Gly Gly  
   1                  5                  10                  15  
 Lys Ile Gly Trp Gly Lys Lys Gly Leu Phe Phe Leu Lys Val Asn Tyr  
                   20                  25                  30  
 Trp Gly Lys Lys Ala Phe Asn Pro Arg Gly His Ser Lys Lys Val Thr  
                   35                  40                  45  
 Phe His Gln Leu Gly Leu Lys Lys Asn Pro Phe Trp Gly Leu Xaa Lys  
           50                  55                  60  
 Glu Val Leu Gly Lys Ala Phe Ser Thr Phe Ser Tyr Leu Val Gln His  
   65                  70                  75                  80  
 Gln Arg Ile His Thr Ser Glu Xaa Pro Tyr Glu Cys Lys Glu Cys Gly  
                   85                  90                  95  
 Lys Ala Phe Ser Thr Ser Ser Pro Leu Ala Lys His Gln Arg Ile His  
                   100                  105                  110  
 Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys Ser Phe Thr  
           115                  120                  125  
 Val Tyr Gly Gln Leu Thr Arg His Gln Ser Ile His Thr Gly Glu Lys  
   130                  135                  140  
 Pro Phe Glu Cys Lys Glu Cys Gly Lys Ala Phe Arg Leu Ser Ser Phe  
 145                  150                  155                  160  
 Leu His Ala His Gln Arg Ile His Ala Xaa Xaa Lys Pro Tyr Gly Cys  
                   165                  170                  175  
 Lys Glu Cys Gly Lys Thr Phe Ser Arg Ala Ser Tyr Leu Val Gln His  
           180                  185                  190

Gly Arg Leu His Thr Gly Glu Lys Pro Cys Glu Cys Lys Glu Cys Gly  
195 200 205

Lys Ala Phe Ser Thr Gly Ser Tyr Leu Val Gln His Gln Arg Ile His  
210 215 220

Thr Gly Glu Lys Pro Tyr Glu Cys Lys Glu Cys Gly Lys Ala Phe Ile  
225 230 235 240

Ser Arg His Gln Leu Thr Val His Gln Arg Val His Thr Gly Glu Lys  
245 250 255

Pro Tyr Lys Cys Lys Glu Glu Gly  
260

<210> 307  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 307  
Met Trp Val Cys Ser Ile Thr Asp Gln  
1 5

<210> 308  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 308  
Leu Thr Tyr Leu Ala His Leu Leu Cys Phe  
1 5 10

<210> 309  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 309  
Met Cys Ser Leu Ser Ser Glu His Leu Ala  
1 5 10

<210> 310  
<211> 465  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 310  
 Asn Arg Arg Asn Gly Ala Ser Gln Ile Thr Trp Cys Ser Gly Gln Xaa  
   1                  5                  10                  15  
 Lys Ser Ser Lys Trp Ala Arg Glu Ile Gly Xaa Tyr Gln Thr Gly Val  
                   20                  25                  30  
 Tyr Gln Pro Gly Trp Gly Pro Gln Arg His Ala Xaa Gly Glu Ile Ala  
                   35                  40                  45  
 Thr Arg Ala Ile Ser Met Leu Ala Ile Leu Thr Gly Asn Val Gly Ile  
           50                  55                  60  
 Asn Gly Gly Asn Ser Gly Ala Arg Glu Gly Ser Tyr Ser Leu Pro Phe  
   65                  70                  75                  80  
 Val Arg Met Pro Thr Leu Glu Asn Pro Ile Gln Thr Ser Ile Ser Met  
                   85                  90                  95  
 Phe Met Trp Thr Asp Ala Ile Glu Arg Gly Pro Glu Met Thr Ala Leu  
                   100                  105                  110  
 Arg Asp Gly Val Arg Gly Lys Asp Lys Leu Asp Val Pro Ile Lys Met  
           115                  120                  125  
 Ile Trp Asn Tyr Ala Gly Asn Cys Leu Ile Asn Gln His Ser Glu Ile  
           130                  135                  140  
 Asn Arg Thr His Glu Ile Leu Gln Asp Asp Lys Lys Cys Glu Leu Ile  
  145                  150                  155                  160  
 Val Val Ile Asp Cys His Met Thr Ser Ser Ala Lys Tyr Ala Asp Ile  
                   165                  170                  175  
 Leu Leu Pro Asp Cys Thr Ala Ser Glu Gln Met Asp Phe Ala Leu Asp  
                   180                  185                  190  
 Ala Ser Cys Gly Asn Met Ser Tyr Val Ile Phe Asn Asp Gln Val Ile  
           195                  200                  205  
 Lys Pro Arg Phe Glu Cys Lys Thr Ile Tyr Glu Met Thr Ser Glu Leu  
   210                  215                  220

Ala	Lys	Arg	Leu	Gly	Val	Glu	Gln	Gln	Phe	Thr	Glu	Gly	Arg	Thr	Gln	225	230	235	240
Glu	Glu	Trp	Met	Arg	His	Leu	Tyr	Ala	Gln	Ser	Arg	Glu	Ala	Ile	Pro	245	250	255	
Glu	Leu	Pro	Thr	Phe	Glu	Glu	Phe	Arg	Lys	Gln	Gly	Ile	Phe	Lys	Lys	260	265	270	
Arg	Asp	Pro	Gln	Gly	His	His	Val	Ala	Tyr	Lys	Ala	Phe	Arg	Glu	Asp	275	280	285	
Pro	Gln	Ala	Asn	Pro	Leu	Thr	Thr	Pro	Ser	Gly	Lys	Ile	Glu	Ile	Tyr	290	295	300	
Ser	Gln	Ala	Leu	Ala	Asp	Ile	Ala	Ala	Thr	Trp	Glu	Leu	Pro	Glu	Gly	305	310	315	320
Asp	Val	Ile	Asp	Pro	Leu	Pro	Ile	Tyr	Thr	Pro	Gly	Phe	Glu	Ser	Tyr	325	330	335	
Gln	Asp	Pro	Leu	Asn	Lys	Gln	Tyr	Pro	Leu	Gln	Leu	Thr	Gly	Phe	His	340	345	350	
Tyr	Lys	Ser	Arg	Val	His	Ser	Thr	Tyr	Gly	Asn	Val	Asp	Val	Leu	Lys	355	360	365	
Ala	Ala	Cys	Arg	Gln	Glu	Met	Trp	Ile	Asn	Pro	Leu	Asp	Ala	Gln	Lys	370	375	380	
Arg	Gly	Ile	His	Asn	Gly	Asp	Lys	Val	Arg	Ile	Phe	Asn	Asp	Arg	Gly	385	390	395	400
Glu	Val	His	Ile	Glu	Ala	Lys	Val	Thr	Pro	Arg	Met	Met	Pro	Gly	Val	405	410	415	
Val	Ala	Leu	Gly	Glu	Gly	Ala	Trp	Tyr	Asp	Pro	Asp	Ala	Lys	Arg	Val	420	425	430	
Asp	Lys	Gly	Gly	Cys	Ile	Asn	Val	Leu	Thr	Thr	Gln	Arg	Pro	Ser	Pro	435	440	445	
Leu	Ala	Lys	Gly	Asn	Pro	Ser	His	Thr	Asn	Leu	Val	Gln	Val	Glu	Lys	450	455	460	
Val																465			

<210> 311  
 <211> 185  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 Met Ala Gln Ala Asn Ser Thr Leu Gly Ala Gly Gly Trp Val Gly Asn

1	5	10	15
Gly Val Tyr Val Ser Gly Val Gln Arg Glu Tyr Asp Ala Phe Ile Thr	20	25	30
Asn Gln Leu Arg Ala Ala Gln Thr Gln Ser Ser Gly Leu Thr Ala Arg	35	40	45
Tyr Glu Gln Met Ser Lys Ile Asp Asn Met Leu Ser Thr Ser Thr Ser	50	55	60
Ser Leu Ala Thr Gln Met Gln Asp Phe Phe Thr Ser Leu Gln Thr Leu	65	70	75
Val Ser Asn Ala Glu Asp Pro Ala Ala Arg Gln Ala Leu Ile Gly Lys	85	90	95
Ser Glu Gly Leu Val Asn Gln Phe Lys Thr Thr Asp Gln Tyr Leu Arg	100	105	110
Asp Gln Asp Lys Gln Val Asn Ile Ala Ile Gly Ala Ser Val Asp Gln	115	120	125
Ile Asn Asn Tyr Ala Lys Gln Ile Ala Ser Leu Asn Asp Gln Ile Ser	130	135	140
Arg Leu Thr Gly Val Gly Ala Gly Ala Ser Pro Asn Asn Leu Leu Asp	145	150	155
Gln Arg Asp Gln Leu Gly Glu Arg Ile Lys Pro Asp Cys Trp Cys Arg	165	170	175
Ser Gln Arg Ser Gly Trp Arg His Leu	180	185	

<210> 312  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 312
Met Ser His Cys Ala Trp Pro Pro Leu Leu Ile Phe Ile Thr Arg Val
1 5 10 15
Gln Trp Ala Thr Ala Thr Lys Cys Gln Phe Thr Ala Lys Ser Gly Ile
20 25 30
Gly Leu Thr Gln Gly Cys Ser Ser Val Phe Val Lys Leu Gly Leu Phe
35 40 45
Leu Ile Cys Pro Tyr Asp Trp Glu
50 55

<210> 313  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 313  
Met Ser His Cys Ala Trp Pro Pro Leu Leu Ile Phe Ile Thr Arg Val  
1 5 10 15  
Gln Trp Ala Thr Ala Thr Lys Cys Gln Phe Thr Ala Lys Ser Gly Ile  
20 25 30  
Gly Leu Thr Gln Gly Cys Ser Ser Val Phe Val Lys Leu Gly Leu Phe  
35 40 45  
Leu Ile Cys Pro Tyr Asp Trp Glu  
50 55

<210> 314  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 314  
Leu Pro Ala Arg Leu Leu Gln Arg Ser Pro Arg Arg Cys Arg Arg Arg  
1 5 10 15  
Arg Val Pro Ser Pro Ser Leu Ala His Val Gly Arg Arg Val Gln Pro  
20 25 30  
Cys Tyr Ser Arg Ala Pro Pro Leu Ser Ser  
35 40

<210> 315  
<211> 146  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 315  
Met Ala Ala Leu Leu Leu Xaa Pro Leu Leu Leu Leu Leu Pro Leu Leu  
1 5 10 15  
Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Ala  
20 25 30  
Thr Ala Ala Arg Gly Ala Leu Glu Lys Ala Ser Gly Gln Arg Arg Glu  
35 40 45

Pro Glu Met Gln Arg Pro Glu Ala Ala Arg Ser Leu Pro Glu Gly Thr  
 50 55 60  
 Val Pro Pro Glu Val Glu Glu Pro Pro Pro Leu Cys His Leu Glu Gln  
 65 70 75 80  
 Leu Trp Arg Cys Ser Ser Pro Leu Ala Gln Ser Phe Cys Gly Ser Gly  
 85 90 95  
 Ser Gly Trp Pro Arg Pro Ala Cys Ala Leu Pro Leu Cys Pro Pro Pro  
 100 105 110  
 Cys Ala Gly Ala Pro Cys Cys Thr Ala Ser Ala Ala Ala Arg Ala  
 115 120 125  
 Arg Trp Cys Trp Arg Gln Ser Phe Trp Ser Pro Trp Ser Arg Thr Cys  
 130 135 140  
 Pro Pro  
 145

<210> 316  
 <211> 174  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (151)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (161)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 316  
 Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu Leu  
 1 5 10 15  
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp  
 20 25 30  
 Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala  
 35 40 45  
 Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly  
 50 55 60  
 Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Ala

65		70		75		80
His Thr Phe Leu Ile His Gly Ser Arg Arg Phe Ser Tyr Ser Glu Ala						
		85		90		95
Glu Arg Glu Ser Asn Arg Ala Ala Arg Ala Phe Leu Arg Ala Leu Gly						
		100		105		110
Trp Asp Trp Gly Pro Asp Gly Gly Asp Ser Gly Glu Gly Ser Ala Gly						
		115		120		125
Glu Gly Glu Arg Ala Ala Pro Gly Ala Gly Asp Ala Ser Gly Arg Lys						
		130		135		140
Arg Arg Gly Val Cys Arg Xaa Gly Thr Val Pro Pro Glu Gly Gly Arg						
145		150		155		160
Xaa Pro Pro Xaa Pro Phe Val Thr Leu Glu Ala Asn Cys Gly						
		165		170		

<210> 317  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 317
Gln Trp Gly Gly Gly Gln Leu Met Glu Leu Val Pro Leu Xaa Cys Ala
1 5 10 15
Phe Pro Gly Val Gly Ser Trp Gly Trp Glu Gln Gly Lys Ala Ala Ser
20 25 30
Ser Leu Gly Phe Leu Leu Cys Leu Pro Arg Val Ala Ala Asn Pro Val
35 40 45
Pro Ala Gly Gly Ala Gly Met Ala Ser Cys Pro Gly Leu Trp Gln Glu
50 55 60
Thr Leu Phe Pro Leu Pro Val Gly Leu Pro Arg Leu Ser Xaa Pro Phe
65 70 75 80
Ser His Lys Lys Ile Trp Gly Gln Ala Arg Trp Leu Thr Pro Val Ile
85 90 95
Pro Ala Leu Trp Glu Ala Glu Ala Gly Ser His Lys Val Arg Arg Ser



	100	105	110
Gly Pro Ser Trp Leu Ile Arg			
115			
<210> 318			
<211> 234			
<212> PRT			
<213> Homo sapiens			
<400> 318			
Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu Leu			
1 5 10 15			
Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp			
20 25 30			
Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala			
35 40 45			
Arg Ala Leu Ala Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly			
50 55 60			
Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Ala			
65 70 75 80			
His Thr Phe Leu Ile His Gly Ser Arg Arg Phe Ser Tyr Ser Glu Ala			
85 90 95			
Glu Arg Glu Ser Asn Arg Ala Ala Arg Ala Phe Leu Arg Ala Leu Gly			
100 105 110			
Trp Asp Trp Gly Pro Asp Gly Gly Asp Ser Gly Glu Gly Ser Ala Gly			
115 120 125			
Glu Gly Glu Arg Ala Ala Pro Gly Ala Gly Asp Ala Ala Ala Gly Ser			
130 135 140			
Gly Ala Glu Phe Ala Gly Gly Asp Gly Ala Ala Arg Gly Gly Gly Ala			
145 150 155 160			
Ala Ala Leu Cys His Leu Glu Gln Leu Trp Arg Cys Ser Ser Pro Leu			
165 170 175			
Ala Gln Ser Phe Cys Gly Ser Gly Ser Gly Trp Pro Arg Pro Ala Cys			
180 185 190			
Ala Leu Pro Leu Cys Pro Pro Pro Cys Ala Gly Ala Pro Cys Cys Thr			
195 200 205			
Ala Ser Ala Ala Ala Ala Arg Ala Arg Trp Cys Trp Arg Gln Ser Phe			
210 215 220			
Trp Ser Pro Trp Ser Arg Thr Cys Pro Pro			
225 230			

<210> 319  
<211> 683  
<212> PRT  
<213> Homo sapiens

<400> 319  
Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Leu Pro Leu Leu  
1 5 10 15  
Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp  
20 25 30  
Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala  
35 40 45  
Arg Ala Leu Ala Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly  
50 55 60  
Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Ala  
65 70 75 80  
His Thr Phe Leu Ile His Gly Ser Arg Arg Phe Ser Tyr Ser Glu Ala  
85 90 95  
Glu Arg Glu Ser Asn Arg Ala Ala Arg Ala Phe Leu Arg Ala Leu Gly  
100 105 110  
Trp Asp Trp Gly Pro Asp Gly Gly Asp Ser Gly Glu Gly Ser Ala Gly  
115 120 125  
Glu Gly Glu Arg Ala Ala Pro Gly Ala Gly Asp Ala Ala Ala Gly Ser  
130 135 140  
Gly Ala Glu Phe Ala Gly Gly Asp Gly Ala Ala Arg Gly Gly Gly Ala  
145 150 155 160  
Ala Ala Pro Leu Ser Pro Gly Ala Thr Val Ala Leu Leu Leu Pro Ala  
165 170 175  
Gly Pro Glu Phe Leu Trp Leu Trp Phe Gly Leu Ala Lys Ala Gly Leu  
180 185 190  
Arg Thr Ala Phe Val Pro Thr Ala Leu Arg Arg Gly Pro Leu Leu His  
195 200 205  
Cys Leu Arg Ser Cys Gly Ala Arg Ala Leu Val Leu Ala Pro Glu Phe  
210 215 220  
Leu Glu Ser Leu Glu Pro Asp Leu Pro Ala Leu Arg Ala Met Gly Leu  
225 230 235 240  
His Leu Trp Ala Ala Gly Pro Gly Thr His Pro Ala Gly Ile Ser Asp  
245 250 255

Leu	Leu	Ala	Glu	Val	Ser	Ala	Glu	Val	Asp	Gly	Pro	Val	Pro	Gly	Tyr	260	265	270	
Leu	Ser	Ser	Pro	Gln	Ser	Ile	Thr	Asp	Thr	Cys	Leu	Tyr	Ile	Phe	Thr	275	280	285	
Ser	Gly	Thr	Thr	Gly	Leu	Pro	Lys	Ala	Ala	Arg	Ile	Ser	His	Leu	Lys	290	295	300	
Ile	Leu	Gln	Cys	Gln	Gly	Phe	Tyr	Gln	Leu	Cys	Gly	Val	His	Gln	Glu	305	310	315	320
Asp	Val	Ile	Tyr	Leu	Ala	Leu	Pro	Leu	Tyr	His	Met	Ser	Gly	Ser	Leu	325	330	335	
Leu	Gly	Ile	Val	Gly	Cys	Met	Gly	Ile	Gly	Ala	Thr	Val	Val	Leu	Lys	340	345	350	
Ser	Lys	Phe	Ser	Ala	Gly	Gln	Phe	Trp	Glu	Asp	Cys	Gln	Gln	His	Arg	355	360	365	
Val	Thr	Val	Phe	Gln	Tyr	Ile	Gly	Glu	Leu	Cys	Arg	Tyr	Leu	Val	Asn	370	375	380	
Gln	Pro	Pro	Ser	Lys	Ala	Glu	Arg	Gly	His	Lys	Val	Arg	Leu	Ala	Val	385	390	395	400
Gly	Ser	Gly	Leu	Arg	Pro	Asp	Thr	Trp	Glu	Arg	Phe	Val	Arg	Arg	Phe	405	410	415	
Gly	Pro	Leu	Gln	Val	Leu	Glu	Thr	Tyr	Gly	Leu	Thr	Glu	Gly	Asn	Val	420	425	430	
Ala	Thr	Ile	Asn	Tyr	Thr	Gly	Gln	Arg	Gly	Ala	Val	Gly	Arg	Ala	Ser	435	440	445	
Trp	Leu	Tyr	Lys	His	Ile	Phe	Pro	Phe	Ser	Leu	Ile	Arg	Tyr	Asp	Val	450	455	460	
Thr	Thr	Gly	Glu	Pro	Ile	Arg	Asp	Pro	Gln	Gly	His	Cys	Met	Ala	Thr	465	470	475	480
Ser	Pro	Gly	Glu	Pro	Gly	Leu	Leu	Val	Ala	Pro	Val	Ser	Gln	Gln	Ser	485	490	495	
Pro	Phe	Leu	Gly	Tyr	Ala	Gly	Gly	Pro	Glu	Leu	Ala	Gln	Gly	Lys	Leu	500	505	510	
Leu	Lys	Asp	Val	Phe	Arg	Pro	Gly	Asp	Val	Phe	Phe	Asn	Thr	Gly	Asp	515	520	525	
Leu	Leu	Val	Cys	Asp	Asp	Gln	Gly	Phe	Leu	Arg	Phe	His	Asp	Arg	Thr	530	535	540	
Gly	Asp	Thr	Phe	Arg	Trp	Lys	Gly	Glu	Asn	Val	Ala	Thr	Thr	Glu	Val	545	550	555	560

Ala	Glu	Val	Phe	Glu	Ala	Leu	Asp	Phe	Leu	Gln	Glu	Val	Asn	Val	Tyr	
				565					570					575		
Gly	Val	Thr	Val	Pro	Gly	His	Glu	Gly	Arg	Ala	Gly	Met	Ala	Ala	Leu	
			580					585					590			
Val	Leu	Arg	Pro	Pro	His	Ala	Leu	Asp	Leu	Met	Gln	Leu	Tyr	Thr	His	
		595					600					605				
Val	Ser	Glu	Asn	Leu	Pro	Pro	Tyr	Ala	Arg	Pro	Arg	Phe	Leu	Arg	Leu	
	610					615					620					
Gln	Glu	Ser	Leu	Ala	Thr	Thr	Glu	Thr	Phe	Lys	Gln	Gln	Lys	Val	Arg	
625					630					635					640	
Met	Ala	Asn	Glu	Gly	Phe	Asp	Pro	Ser	Thr	Leu	Ser	Asp	Pro	Leu	Tyr	
				645					650					655		
Val	Leu	Asp	Gln	Ala	Val	Gly	Ala	Tyr	Leu	Pro	Leu	Thr	Thr	Ala	Arg	
		660						665						670		
Tyr	Ser	Ala	Leu	Leu	Ala	Gly	Asn	Leu	Arg	Ile						
		675					680									

<210> 320  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (157)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Met	Gly	Pro	Arg	Phe	Thr	Met	Leu	Leu	Ala	Met	Trp	Leu	Val	Cys	Gly	
1				5					10					15		
Ser	Glu	Pro	His	Pro	His	Ala	Thr	Ile	Arg	Gly	Ser	His	Gly	Gly	Arg	
			20					25					30			
Lys	Val	Pro	Leu	Val	Ser	Pro	Asp	Ser	Ser	Arg	Pro	Ala	Arg	Phe	Leu	
		35					40					45				
Arg	His	Thr	Gly	Arg	Ser	Arg	Gly	Ile	Glu	Arg	Ser	Thr	Leu	Glu	Glu	
	50					55					60					
Pro	Asn	Leu	Gln	Pro	Leu	Gln	Arg	Arg	Arg	Ser	Val	Pro	Val	Leu	Arg	
	65				70					75					80	
Leu	Ala	Arg	Pro	Thr	Glu	Pro	Pro	Ala	Arg	Ser	Asp	Ile	Asn	Gly	Ala	
				85					90					95		
Ala	Val	Arg	Pro	Glu	Gln	Arg	Pro	Ala	Ala	Arg	Gly	Ser	Pro	Arg	Glu	
			100					105					110			

Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg Met Leu Arg Phe  
115 120 125

Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser Phe Ala Gly Lys  
130 135 140

Asn Arg Val Trp Val Ile Ser Ser Pro His Ala Ser Xaa Gly Tyr Tyr  
145 150 155 160

Arg Leu

<210> 321

<211> 509

<212> PRT

<213> Homo sapiens

<400> 321

Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp  
1 5 10 15

Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser  
20 25 30

His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro  
35 40 45

Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser  
50 55 60

Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val  
65 70 75 80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp  
85 90 95

Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly  
100 105 110

Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg  
115 120 125

Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser  
130 135 140

Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser  
145 150 155 160

Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr  
165 170 175

Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln  
180 185 190

Ala	Gly	Glu	Glu	Gly	Gly	Lys	Val	Arg	Arg	Ile	Thr	Ser	Glu	Gly	Gln	195	200	205	
Ile	Leu	Glu	Gln	Pro	Leu	Asp	Pro	Ser	Leu	Ile	Pro	Lys	Leu	Met	Ser	210	215	220	
Phe	Leu	Lys	Leu	Glu	Lys	Gly	Lys	Phe	Gly	Met	Val	Leu	Leu	Lys	Lys	225	230	235	240
Thr	Leu	Gln	Val	Glu	Glu	Arg	Tyr	Pro	Tyr	Pro	Val	Arg	Leu	Glu	Ala	245	250	255	
Met	Tyr	Glu	Val	Ile	Asp	Gln	Gly	Pro	Ile	Arg	Arg	Ile	Glu	Lys	Ile	260	265	270	
Arg	Gln	Lys	Gly	Phe	Val	Gln	Lys	Cys	Lys	Ala	Ser	Gly	Val	Glu	Gly	275	280	285	
Gln	Val	Val	Ala	Glu	Gly	Asn	Asp	Gly	Gly	Gly	Gly	Ala	Gly	Arg	Pro	290	295	300	
Ser	Leu	Gly	Ser	Glu	Lys	Lys	Lys	Glu	Asp	Pro	Arg	Arg	Ala	Gln	Val	305	310	315	320
Pro	Pro	Thr	Arg	Glu	Ser	Arg	Val	Lys	Val	Leu	Arg	Lys	Leu	Ala	Ala	325	330	335	
Thr	Ala	Pro	Ala	Phe	Pro	Gln	Pro	Pro	Ser	Thr	Pro	Arg	Ala	Thr	Thr	340	345	350	
Leu	Pro	Pro	Ala	Pro	Ala	Thr	Thr	Val	Thr	Arg	Ser	Thr	Ser	Arg	Ala	355	360	365	
Val	Thr	Val	Ala	Ala	Arg	Pro	Met	Thr	Thr	Thr	Ala	Phe	Pro	Thr	Thr	370	375	380	
Gln	Arg	Pro	Trp	Thr	Pro	Ser	Pro	Ser	His	Arg	Pro	Pro	Thr	Thr	Thr	385	390	395	400
Glu	Val	Ile	Thr	Ala	Arg	Arg	Pro	Ser	Val	Ser	Glu	Asn	Leu	Tyr	Pro	405	410	415	
Pro	Ser	Arg	Lys	Asp	Gln	His	Arg	Glu	Arg	Pro	Gln	Thr	Thr	Arg	Arg	420	425	430	
Pro	Ser	Lys	Ala	Thr	Ser	Leu	Glu	Ser	Phe	Thr	Asn	Ala	Pro	Pro	Thr	435	440	445	
Thr	Ile	Ser	Glu	Pro	Ser	Thr	Arg	Ala	Ala	Gly	Pro	Gly	Arg	Phe	Arg	450	455	460	
Asp	Asn	Arg	Met	Asp	Arg	Arg	Glu	His	Gly	His	Arg	Asp	Pro	Asn	Val	465	470	475	480
Val	Pro	Gly	Pro	Pro	Lys	Pro	Ala	Lys	Glu	Lys	Pro	Pro	Lys	Lys	Lys	485	490	495	

Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val  
500 505

<210> 322  
<211> 68  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 322  
Pro Pro His Leu Xaa Ser Phe Glu Phe Leu Lys Asn Val Gln Leu Arg  
1 5 10 15  
Pro Asp Thr Val Ala His Thr Cys Asp Pro Gly Thr Leu Gly Gly Arg  
20 25 30  
Gly Trp Trp Ile Thr Gly Ser Gly Asp Arg Asp Ile Leu Ala Asn Thr  
35 40 45  
Val Lys Arg Arg Leu Tyr Arg Lys Cys Arg Arg Leu Ala Gly His Gly  
50 55 60  
Gly Gly Arg Leu  
65

<210> 323  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 323  
Met Pro Asn Gln Phe Trp Lys Leu His Ile Leu Leu Phe Leu Leu Phe  
1 5 10 15  
Phe Leu Phe Pro Leu Val Gln Leu Cys Ile Phe Ile Leu Ile Ser Asn  
20 25 30  
Lys Glu Lys Lys Asn Val Cys Thr Leu Arg Lys Thr Tyr Ile Val Arg  
35 40 45  
His Phe Leu Trp Leu Arg Ser Phe Gln Val  
50 55

<210> 324  
<211> 58  
<212> PRT  
<213> Homo sapiens



<400> 324

Met Gln Val Phe Ser Ala Leu Leu Tyr Ser Leu Met His Phe Tyr Leu  
1 5 10 15

Pro Ser Phe Thr Leu Glu Met Tyr Leu Asn Thr Leu Leu Ser His Asp  
20 25 30

Leu Leu Ser Phe Phe His Cys Ser Gly Leu Val Phe Phe Val Tyr Phe  
35 40 45

Lys Ser Val Thr Gly Leu Phe Ser Gly Val  
50 55

<210> 325

<211> 1

<212> PRT

<213> Homo sapiens

<400> 325

Ile

1

<210> 326

<211> 7

<212> PRT

<213> Homo sapiens

<400> 326

Ile Phe Thr Cys Val Leu Tyr  
1 5

<210> 327

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 327

Gln Thr Val Ser Ala Phe Leu Pro Pro Leu Phe Tyr Val Thr Phe Xaa  
1 5 10 15

Leu Gly Lys Ile Asn Tyr Thr Lys Tyr His Ile Ile Pro Ser Tyr Lys  
20 25 30

Leu Leu Pro Glu Asn Lys Ser Cys Val  
35 40



<210> 328  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 328  
Met Gln Val Phe Ser Ala Leu Leu Tyr Ser Leu Met His Phe Tyr Leu  
1 5 10 15  
Pro Ser Phe Thr Leu Glu Met Tyr Leu Asn Thr Leu Leu Ser His Asp  
20 25 30  
Leu Leu Ser Phe Phe His Cys Ser Gly Leu Val Phe Phe Val Tyr Phe  
35 40 45  
Lys Ser Val Thr Gly Leu Phe Ser Gly Val  
50 55

<210> 329  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 329  
Met Met Pro Ala Tyr Pro Xaa Leu Leu Ala Trp Ile Leu Phe  
1 5 10

<210> 330  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 330  
Ala Trp Ser His Leu Ser Ile Leu Leu Asn Tyr Lys Leu Gln Arg Gln  
1 5 10 15  
Glu Trp His Leu Phe Thr Tyr Phe Glu Phe Val Cys Asn Cys Leu Asp  
20 25 30

<210> 331

<211> 188  
<212> PRT  
<213> Homo sapiens

<400> 331

Met	Glu	Pro	Ser	Leu	Val	His	Ile	Leu	Val	Trp	Val	Ser	Val	Pro	Pro	
1				5				10						15		
Leu	Phe	Leu	Cys	Leu	Thr	His	Ser	Arg	Ser	Ile	Asn	His	Asn	Gln	Asp	
			20					25					30			
Gly	Leu	Asn	Leu	Thr	Pro	Leu	Leu	Gln	Met	Pro	His	Gln	Leu	Thr	Asp	
		35					40					45				
Ala	Ser	Gly	Val	Ile	Lys	Ala	Pro	Ala	Cys	His	Pro	Thr	Val	Asn	Thr	
	50					55					60					
Asn	Pro	His	Lys	Glu	Asn	Glu	His	Ala	Phe	Leu	Phe	Ala	Gly	Cys	Cys	
65					70					75					80	
Thr	His	Ser	Leu	Asn	Arg	Val	Gly	Thr	Trp	Val	Pro	Pro	Leu	Phe	Lys	
				85					90					95		
Val	Phe	Arg	Phe	Leu	Leu	Arg	Gly	Thr	Ser	Ala	Ile	Ala	Thr	Phe	Ser	
			100					105					110			
Gly	His	Phe	Phe	Ser	Asp	Glu	Ala	Phe	Tyr	Pro	Gly	Glu	Pro	Gly	Arg	
		115					120					125				
Leu	Gln	Gly	Asn	Gly	Val	Pro	Trp	Gln	Leu	Thr	Val	Thr	Gly	Gln	Gly	
	130					135					140					
Phe	Asp	Tyr	Asp	Lys	Glu	Asp	Lys	Arg	Arg	Glu	Ala	Pro	His	Gly	Leu	
145				150						155					160	
Trp	Leu	Gln	His	Tyr	Arg	Ala	Ala	Arg	Asp	Pro	Arg	Ala	Trp	Val	Ser	
			165						170					175		
Trp	Trp	Ser	Thr	Phe	Cys	Asp	Pro	Gly	Glu	Glu	Pro					
			180					185								

<210> 332  
<211> 188  
<212> PRT  
<213> Homo sapiens

<400> 332

Met	Glu	Pro	Ser	Leu	Val	His	Ile	Leu	Val	Trp	Val	Ser	Val	Pro	Pro	
1				5				10						15		
Leu	Phe	Leu	Cys	Leu	Thr	His	Ser	Arg	Ser	Ile	Asn	His	Asn	Gln	Asp	
			20					25					30			
Gly	Leu	Asn	Leu	Thr	Pro	Leu	Leu	Gln	Met	Pro	His	Gln	Leu	Thr	Asp	
		35					40					45				

Ala	Ser	Gly	Val	Ile	Lys	Ala	Pro	Ala	Cys	His	Pro	Thr	Val	Asn	Thr
50						55					60				
Asn	Pro	His	Lys	Glu	Asn	Glu	His	Ala	Phe	Leu	Phe	Ala	Gly	Cys	Cys
65					70					75					80
Thr	His	Ser	Leu	Asn	Arg	Val	Gly	Thr	Trp	Val	Pro	Pro	Leu	Phe	Lys
				85					90					95	
Val	Phe	Arg	Phe	Leu	Leu	Arg	Gly	Thr	Ser	Ala	Ile	Ala	Thr	Phe	Ser
			100					105					110		
Gly	His	Phe	Phe	Ser	Asp	Glu	Ala	Phe	Tyr	Pro	Gly	Glu	Pro	Gly	Arg
		115					120					125			
Leu	Gln	Gly	Asn	Gly	Val	Pro	Trp	Gln	Leu	Thr	Val	Thr	Gly	Gln	Gly
	130					135					140				
Phe	Asp	Tyr	Asp	Lys	Glu	Asp	Lys	Arg	Arg	Glu	Ala	Pro	His	Gly	Leu
145					150					155					160
Trp	Leu	Gln	His	Tyr	Arg	Ala	Ala	Arg	Asp	Pro	Arg	Ala	Trp	Val	Ser
				165					170					175	
Trp	Trp	Ser	Thr	Phe	Cys	Asp	Pro	Gly	Glu	Glu	Pro				
			180					185							

<210> 333  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

Met	Leu	Cys	Val	Cys	Val	Leu	Trp	Met	Phe	Thr	Val	Pro	Gly	Ser	Arg
1				5					10					15	
Lys	Asp	Val	Gly	Glu	Ala	Ala	Pro	Ala	Ser	Gly	Thr	Gly	Gln	Glu	Cys
			20					25					30		
Arg	Met	His	Gly	Ser	Trp	Ser	Gly	Arg	Ser	Leu	Gly				
		35					40								

<210> 334  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

Met	Leu	Cys	Val	Cys	Val	Leu	Trp	Met	Phe	Thr	Val	Pro	Gly	Ser	Arg
1				5					10					15	
Lys	Asp	Val	Gly	Glu	Ala	Ala	Pro	Ala	Ser	Gly	Thr	Gly	Gln	Glu	Cys

20

25

30

Arg Met His Gly Ser Trp Ser Gly Arg Ser Leu Gly  
           35                  40

&lt;210&gt; 335

&lt;211&gt; 249

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (147)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (150)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (196)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (222)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 335

Met Val Cys Val Phe Met Cys Ile Val Gly Val Cys Val Ala Cys Cys  
   1                  5                  10                  15

Ala Cys Val Tyr Cys Gly Cys Leu Leu Ser Arg Ala Val Glu Arg Thr  
           20                  25                  30

Ser Gly Lys Gln Pro Gln His Gln Gly Gln Ala Arg Ser Ala Glu Cys  
           35                  40                  45

Met Glu Ala Gly Gln Val Gly Ala Trp Asp Glu Gly Ser Thr Glu Met  
       50                  55                  60

Gln Gly Cys Gln Gly Pro Trp Asn Gln Glu Pro Met Ile Lys Ala Thr  
   65                  70                  75                  80

Val His Thr Ala Leu Glu Ala Lys Asp Ile Phe Ile Ser Gln Gly Leu  
           85                  90                  95

Lys Ser Met Gly Gln Gly Trp Ala Pro Gly Gln Asp Trp Gly Tyr Arg  
           100                  105                  110

Val Asp Gln Ser Pro Ser Leu Pro Pro Gly Ala Tyr Pro His Pro Phe  
       115                  120                  125

Thr	Ser	Gln	Val	Ser	Pro	Pro	Gln	Pro	Leu	Gly	Glu	Leu	Leu	Leu	Ile
130						135					140				
Pro	Gln	Xaa	Val	Ala	Xaa	Val	Thr	Leu	Leu	Pro	Glu	Ala	Ser	Pro	His
145					150					155					160
Pro	Leu	Lys	His	Pro	Leu	Pro	Ala	Ala	His	Leu	Gln	His	Ser	Gln	Arg
				165					170					175	
Ala	Pro	Trp	Pro	Val	Ser	Thr	Gly	Leu	Ser	Leu	Leu	Gly	Gly	Ala	Gly
			180					185					190		
Ala	Glu	Gln	Xaa	Pro	Gly	Leu	Gly	Val	Pro	Ala	Pro	Arg	Ser	Thr	Pro
	195						200					205			
Ser	Pro	Thr	Ala	Ser	Leu	Phe	Asn	Leu	Arg	Gln	Ala	Val	Xaa	Leu	Leu
	210					215					220				
Ser	Leu	Thr	Phe	Pro	Leu	Cys	Lys	Met	Arg	Glu	Gly	Thr	Ala	Pro	Ser
225					230					235					240
Lys	Pro	Ser	Phe	Ser	Leu	Lys	Pro	Leu							
				245											

<210> 336  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

Met	Lys	Ile	Val	Thr	Thr	Leu	Tyr	Cys	Leu	Phe	Val	Phe	Leu	Leu	Asn
1				5					10					15	
Cys	Phe	Gly	Val	Gly	Gly	Ser	Cys	Ile	Phe	Leu	Ser	Asn	Arg	Thr	Pro
			20					25					30		
Gly	Phe	Ser	Trp	Ala	His	Asp	Cys	Pro	Gln						
		35					40								

<210> 337  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

Met	Lys	Ile	Val	Thr	Thr	Leu	Tyr	Cys	Leu	Phe	Val	Phe	Leu	Leu	Asn
1				5					10					15	
Cys	Phe	Gly	Val	Gly	Gly	Ser	Cys	Ile	Phe	Leu	Ser	Asn	Arg	Thr	Pro
			20					25					30		
Gly	Phe	Ser	Trp	Ala	His	Asp	Cys	Pro	Gln						
		35					40								

<210> 338  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 338  
Met Lys Ile Val Thr Thr Leu Tyr Cys Leu Phe Val Phe Leu Leu Asn  
1 5 10 15  
Cys Phe Gly Val Gly Gly Ser Cys Ile Phe Leu Ser Asn Arg Thr Pro  
20 25 30  
Gly Phe Ser Trp Ala His Asp Cys Pro Gln  
35 40

<210> 339  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 339  
Leu Leu Ser Asp Val Cys Pro Ser Leu Thr Val Pro Cys Ser Ser His  
1 5 10 15  
Val Phe Thr Asp Cys Leu Leu Tyr Met Gln Ser Gln Arg Val Gly Pro  
20 25 30  
Gly Leu Glu Leu Ser Pro His Leu Pro Leu Leu Ala Pro Pro Ser Ser  
35 40 45  
Trp Ala Leu Ser Ser Asn Thr Val Ile Leu Ser Pro Thr Trp Leu Ile  
50 55 60  
Leu Ser Phe Leu Pro Ser Asn Gly His Leu Gln Lys Lys Lys Lys Lys  
65 70 75 80  
Thr Arg

<210> 340  
<211> 265  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>

<221> SITE  
 <222> (113)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (193)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (222)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (238)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (258)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 340  
 Met Asp Leu Leu Gln Phe Leu Ala Phe Leu Phe Val Leu Leu Leu Ser  
     1                    5                    10                    15  
 Gly Met Gly Ala Thr Gly Thr Leu Arg Thr Ser Leu Asp Pro Ser Leu  
                     20                    25                    30  
 Glu Ile Tyr Lys Lys Met Phe Glu Val Lys Arg Arg Glu Gln Leu Leu  
             35                    40                    45  
 Ala Leu Lys Asn Leu Ala Gln Leu Asn Asp Ile His Gln Gln Tyr Lys  
     50                    55                    60  
 Ile Leu Asp Val Met Leu Lys Gly Leu Phe Lys Val Leu Glu Asp Ser  
     65                    70                    75                    80  
 Arg Thr Val Leu Thr Ala Ala Asp Val Leu Pro Asp Gly Pro Phe Pro  
                     85                    90                    95  
 Gln Asp Glu Lys Leu Lys Asp Ala Phe Ser His Val Val Glu Asn Xaa  
             100                    105                    110  
 Xaa Phe Phe Gly Asp Val Val Leu Arg Phe Pro Lys Ile Val His Tyr  
     115                    120                    125  
 Tyr Phe Asp His Asn Ser Asn Trp Asn Leu Leu Ile Arg Trp Gly Ile  
     130                    135                    140  
 Ser Phe Cys Asn Gln Thr Gly Val Phe Asn Gln Gly Pro His Ser Pro  
     145                    150                    155                    160  
 Ile Leu Ser Leu Met Ala Gln Glu Leu Gly Ile Ser Glu Lys Asp Ser  
             165                    170                    175

Asn	Phe	Gln	Asn	Pro	Phe	Lys	Ile	Asp	Arg	Thr	Glu	Phe	Ile	Pro	Ser
			180					185					190		
Xaa	Asp	Pro	Phe	Gln	Lys	Ala	Leu	Arg	Glu	Glu	Glu	Lys	Arg	Arg	Lys
		195					200					205			
Lys	Glu	Glu	Lys	Arg	Lys	Glu	Ile	Arg	Lys	Gly	Pro	Lys	Xaa	Leu	Pro
	210					215					220				
Asp	Ser	His	Leu	Glu	Leu	Leu	Gly	Pro	Trp	Ser	Ser	Phe	Xaa	Val	Gln
225					230					235					240
Gly	Ala	Thr	Arg	Arg	Gln	Val	Arg	Glu	Gly	Arg	Arg	Gly	Trp	Ser	Phe
				245					250					255	
Gly	Xaa	Trp	Leu	Glu	Glu	Ala	Pro	Phe							
			260					265							

<210> 341  
 <211> 229  
 <212> PRT  
 <213> Homo sapiens

<400> 341

Met	Asp	Leu	Leu	Gln	Phe	Leu	Ala	Phe	Leu	Phe	Val	Leu	Leu	Leu	Ser
1				5					10					15	
Gly	Met	Gly	Ala	Thr	Gly	Thr	Leu	Arg	Thr	Ser	Leu	Asp	Pro	Ser	Leu
			20					25					30		
Glu	Ile	Tyr	Lys	Lys	Met	Phe	Glu	Val	Lys	Arg	Arg	Glu	Gln	Leu	Leu
		35					40					45			
Ala	Leu	Lys	Asn	Leu	Ala	Gln	Leu	Asn	Asp	Ile	His	Gln	Gln	Tyr	Lys
		50				55					60				
Ile	Leu	Asp	Val	Met	Leu	Lys	Gly	Leu	Phe	Lys	Val	Leu	Glu	Asp	Ser
65					70					75					80
Arg	Thr	Val	Leu	Thr	Ala	Ala	Asp	Val	Leu	Pro	Asp	Gly	Pro	Cys	Pro
				85					90					95	
Gln	Asp	Glu	Lys	Leu	Lys	Asp	Ala	Phe	Ser	His	Val	Val	Glu	Asn	Thr
			100					105					110		
Ala	Phe	Phe	Gly	Asp	Val	Val	Leu	Arg	Phe	Pro	Arg	Ile	Val	His	Tyr
		115					120					125			
Tyr	Phe	Asp	His	Asn	Ser	Asn	Trp	Asn	Leu	Leu	Ile	Arg	Trp	Gly	Ile
	130					135					140				
Ser	Phe	Cys	Asn	Gln	Thr	Gly	Val	Phe	Asn	Gln	Gly	Pro	His	Ser	Pro
145					150					155					160



Ile Leu Ser Leu Met Ala Gln Glu Leu Gly Ile Ser Glu Lys Asp Ser  
165 170 175

Asn Phe Gln Asn Pro Phe Lys Ile Asp Arg Thr Glu Phe Ile Pro Ser  
180 185 190

Thr Asp Pro Phe Gln Lys Ala Leu Arg Glu Glu Glu Lys Arg Arg Lys  
195 200 205

Lys Glu Glu Lys Arg Lys Glu Ile Arg Lys Gly Pro Arg Ile Ser Arg  
210 215 220

Ser Gln Ser Glu Leu  
225

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<210> 342
<211> 88
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 342
Xaa Xaa Glu Asp Arg Leu Pro Gly Pro Ile Leu Pro Arg Gly Phe Gln
  1             5             10             15
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Leu Trp Xaa Ser Leu Gly Gly Glu Phe Pro Arg Leu Gln Ile Arg Pro  
20 25 30

Met Cys His Ala Pro Asn Cys Leu Ser Val Arg Pro Ser Val Arg Pro  
35 40 45

Ser Val His Pro Ser Ile His Pro Ser Ile Pro Val Thr Ile Ser Thr  
50 55 60

Pro Met Cys Gln Met Pro Tyr Ile Ser Asn Leu Met Gln Val Pro Pro  
65 70 75 80

Pro Pro Cys Pro Leu Leu Ile Gln  
85

<210> 343  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (138)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (152)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 343  
 Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys  
   1                  5                  10                  15  
 Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr  
                   20                  25                  30  
 Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe  
           35                  40                  45  
 Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser  
       50                  55                  60  
 Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys  
   65                  70                  75                  80  
 Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp  
                   85                  90                  95  
 Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val  
           100                  105                  110  
 Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser  
       115                  120                  125  
 Leu Asn Phe Thr Ala Asn Pro Pro Gln Xaa Val Phe Glu Leu Val Asp  
       130                  135                  140  
 Gln Ile Asn Pro Ser Ile Phe Xaa Ile His Ile Thr Asn Cys Arg Cys  
   145                  150                  155                  160

Ser Val

<210> 344  
 <211> 274  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 344

Pro Phe Tyr Ser Ser Pro Glu Ile Leu Arg Val Pro Asp Ser Arg Lys  
1 5 10 15

Lys Val Pro Ile Thr Val Gln Ser Ile Val Ile Gln Ser Leu Asn Lys  
20 25 30

Thr Leu Thr Arg Arg Glu Asp Thr Asp Val Leu Gln Pro Thr Leu Val  
35 40 45

Asn Ala Gly His Phe Ser Leu Xaa Val Asn Val Val Leu Glu Val Lys  
50 55 60

Tyr Ser Leu Thr Tyr Thr Asp Ala Gly Glu Val Thr Lys Ala Asp Leu  
65 70 75 80

Ser Phe Val Leu Gly Thr Val Ser Ser Val Val Val Pro Leu Gln Gln  
85 90 95

Lys Phe Glu Ile His Phe Leu Gln Glu Asn Thr Gln Pro Val Pro Leu  
100 105 110

Ser Gly Asn Pro Gly Tyr Val Val Gly Leu Pro Leu Ala Ala Gly Phe  
115 120 125

Gln Pro His Lys Gly Gly Ala Leu Pro Cys Gln Leu Val Ala Gln Lys  
130 135 140

Val Lys Ser Leu Leu Trp Gly Gln Gly Phe Pro Asp Tyr Val Ala Pro  
145 150 155 160

Phe Gly Asn Ser Gln Ala Gln Asp Met Leu Asp Trp Val Pro Ile His  
165 170 175

Phe Ile Thr Gln Ser Phe Asn Arg Lys Asp Ser Cys Gln Leu Pro Gly  
180 185 190

Ala Leu Val Ile Glu Val Lys Trp Thr Lys Tyr Gly Ser Leu Leu Asn  
195 200 205

Pro Gln Ala Lys Ile Val Asn Val Thr Ala Asn Leu Ile Ser Ser Ser  
210 215 220

Phe Pro Glu Ala Asn Ser Gly Asn Glu Arg Thr Ile Leu Ile Ser Thr  
225 230 235 240

Ala Val Thr Phe Val Asp Val Ser Ala Pro Ala Glu Ala Gly Phe Arg  
245 250 255

Ala Pro Pro Ala Ile Asn Ala Arg Leu Pro Phe Asn Phe Phe Phe Pro  
260 265 270

Phe Val

<210> 345  
<211> 254  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 345  
Thr His Leu Phe Xaa Cys Asn Ser Tyr Tyr Lys Pro Leu Thr Xaa His  
1 5 10 15  
Xaa Pro Phe Ile Ile Gln Lys Xaa Pro Asp Glu Asn Asn Phe Asp Thr  
20 25 30  
Leu Met Lys Thr Ser Asp Gly Phe Thr Leu Asn Ala Glu Ser Tyr Val  
35 40 45  
Ser Phe Thr Thr Lys Leu Asp Ile Pro Thr Ala Ala Lys Tyr Glu Tyr  
50 55 60  
Gly Val Pro Leu Gln Thr Ser Asp Ser Phe Leu Arg Phe Pro Ser Ser  
65 70 75 80  
Leu Thr Ser Ser Leu Cys Thr Asp Asn Asn Pro Ala Ala Phe Leu Val  
85 90 95  
Asn Gln Ala Val Lys Cys Thr Arg Lys Ile Asn Leu Glu Gln Cys Glu  
100 105 110  
Glu Ile Glu Ala Leu Ser Met Ala Phe Tyr Ser Ser Pro Glu Ile Leu  
115 120 125  
Arg Val Pro Asp Ser Arg Lys Lys Val Pro Ile Thr Val Gln Ser Ile  
130 135 140

Val	Ile	Gln	Ser	Leu	Asn	Lys	Thr	Leu	Thr	Arg	Arg	Glu	Asp	Thr	Asp
145					150					155					160
Val	Leu	Gln	Pro	Thr	Leu	Val	Asn	Ala	Gly	His	Phe	Ser	Leu	Cys	Val
				165					170					175	
Asn	Val	Val	Leu	Glu	Asp	Ser	Cys	Gln	Leu	Pro	Gly	Ala	Leu	Val	Ile
			180					185					190		
Glu	Val	Lys	Trp	Thr	Lys	Tyr	Gly	Ser	Leu	Leu	Asn	Pro	Gln	Ala	Lys
		195					200					205			
Ile	Val	Asn	Val	Thr	Ala	Asn	Leu	Ile	Ser	Ser	Ser	Phe	Pro	Glu	Asn
	210					215					220				
Ala	Gln	Met	His	Gln	Phe	Leu	Asn	Ile	His	Val	Lys	Phe	Glu	Asn	Cys
225					230					235					240
Thr	Phe	Gly	Glu	Ile	Lys	Phe	Tyr	Ile	Gln	Leu	Ala	Lys	Lys		
				245					250						

<210> 346  
 <211> 587  
 <212> PRT  
 <213> Homo sapiens

<400> 346															
Met	Arg	Pro	Arg	Gly	Leu	Pro	Pro	Leu	Leu	Val	Val	Leu	Leu	Gly	Cys
1				5					10					15	
Trp	Ala	Ser	Val	Ser	Ala	Gln	Thr	Asp	Ala	Thr	Pro	Ala	Val	Thr	Thr
			20					25					30		
Glu	Gly	Leu	Asn	Ser	Thr	Glu	Ala	Ala	Leu	Ala	Thr	Phe	Gly	Thr	Phe
		35					40					45			
Pro	Ser	Thr	Arg	Pro	Pro	Gly	Thr	Pro	Arg	Ala	Pro	Gly	Pro	Ser	Ser
	50					55					60				
Gly	Pro	Arg	Pro	Thr	Pro	Val	Thr	Asp	Val	Ala	Val	Leu	Cys	Val	Cys
65					70					75					80
Asp	Leu	Ser	Pro	Ala	Gln	Cys	Asp	Ile	Asn	Cys	Cys	Cys	Asp	Pro	Asp
				85					90					95	
Cys	Ser	Ser	Val	Asp	Phe	Ser	Val	Phe	Ser	Ala	Cys	Ser	Val	Pro	Val
			100					105					110		
Val	Thr	Gly	Asp	Ser	Gln	Phe	Cys	Ser	Gln	Lys	Ala	Val	Ile	Tyr	Ser
		115					120					125			
Leu	Asn	Phe	Thr	Ala	Asn	Pro	Pro	Gln	Arg	Val	Phe	Glu	Leu	Val	Asp
	130					135					140				

Gln	Ile	Asn	Pro	Ser	Ile	Phe	Cys	Ile	His	Ile	Thr	Asn	Tyr	Lys	Pro	145	150	155	160
Ala	Leu	Ser	Phe	Ile	Asn	Pro	Glu	Val	Pro	Asp	Glu	Asn	Asn	Phe	Asp	165	170	175	
Thr	Leu	Met	Lys	Thr	Ser	Asp	Gly	Phe	Thr	Leu	Asn	Ala	Glu	Ser	Tyr	180	185	190	
Val	Ser	Phe	Thr	Thr	Lys	Leu	Asp	Ile	Pro	Thr	Ala	Ala	Lys	Tyr	Glu	195	200	205	
Tyr	Gly	Val	Pro	Leu	Gln	Thr	Ser	Asp	Ser	Phe	Leu	Arg	Phe	Pro	Ser	210	215	220	
Ser	Leu	Thr	Ser	Ser	Leu	Cys	Thr	Asp	Asn	Asn	Pro	Ala	Ala	Phe	Leu	225	230	235	240
Val	Asn	Gln	Ala	Val	Lys	Cys	Thr	Arg	Lys	Ile	Asn	Leu	Glu	Gln	Cys	245	250	255	
Glu	Glu	Ile	Glu	Ala	Leu	Ser	Met	Ala	Phe	Tyr	Ser	Ser	Pro	Glu	Ile	260	265	270	
Leu	Arg	Val	Pro	Asp	Ser	Arg	Lys	Lys	Val	Pro	Ile	Thr	Val	Gln	Ser	275	280	285	
Ile	Val	Ile	Gln	Ser	Leu	Asn	Lys	Thr	Leu	Thr	Arg	Arg	Glu	Asp	Thr	290	295	300	
Asp	Val	Leu	Gln	Pro	Thr	Leu	Val	Asn	Ala	Gly	His	Phe	Ser	Leu	Cys	305	310	315	320
Val	Asn	Val	Val	Leu	Glu	Val	Lys	Tyr	Ser	Leu	Thr	Tyr	Thr	Asp	Ala	325	330	335	
Gly	Glu	Val	Thr	Lys	Ala	Asp	Leu	Ser	Phe	Val	Leu	Gly	Thr	Val	Ser	340	345	350	
Ser	Val	Val	Val	Pro	Leu	Gln	Gln	Lys	Phe	Glu	Ile	His	Phe	Leu	Gln	355	360	365	
Glu	Asn	Thr	Gln	Pro	Val	Pro	Leu	Ser	Gly	Asn	Pro	Gly	Tyr	Val	Val	370	375	380	
Gly	Leu	Pro	Leu	Ala	Ala	Gly	Phe	Gln	Pro	His	Lys	Gly	Ser	Gly	Ile	385	390	395	400
Ile	Gln	Thr	Thr	Asn	Arg	Tyr	Gly	Gln	Leu	Thr	Ile	Leu	His	Ser	Thr	405	410	415	
Thr	Glu	Gln	Asp	Cys	Leu	Ala	Leu	Glu	Gly	Val	Arg	Thr	Pro	Val	Leu	420	425	430	
Phe	Gly	Tyr	Thr	Met	Gln	Ser	Gly	Cys	Lys	Leu	Arg	Leu	Thr	Gly	Ala	435	440	445	

Leu	Pro	Cys	Gln	Leu	Val	Ala	Gln	Lys	Val	Lys	Ser	Leu	Leu	Trp	Gly
450						455					460				
Gln	Gly	Phe	Pro	Asp	Tyr	Val	Ala	Pro	Phe	Gly	Asn	Ser	Gln	Ala	Gln
465					470					475					480
Asp	Met	Leu	Asp	Trp	Val	Pro	Ile	His	Phe	Ile	Thr	Gln	Ser	Phe	Asn
				485					490					495	
Arg	Lys	Asp	Ser	Cys	Gln	Leu	Pro	Gly	Ala	Leu	Val	Ile	Glu	Val	Lys
			500					505					510		
Trp	Thr	Lys	Tyr	Gly	Ser	Leu	Leu	Asn	Pro	Gln	Ala	Lys	Ile	Val	Asn
		515					520					525			
Val	Thr	Ala	Asn	Leu	Ile	Ser	Ser	Ser	Phe	Pro	Glu	Ala	Asn	Ser	Gly
		530				535					540				
Asn	Glu	Arg	Thr	Ile	Leu	Ile	Ser	Thr	Ala	Val	Thr	Phe	Val	Asp	Val
545					550					555					560
Ser	Ala	Pro	Ala	Glu	Ala	Gly	Phe	Arg	Ala	Pro	Pro	Ala	Ile	Asn	Ala
				565					570					575	
Arg	Leu	Pro	Phe	Asn	Phe	Phe	Phe	Pro	Phe	Val					
			580					585							

<210> 347  
 <211> 184  
 <212> PRT  
 <213> Homo sapiens

<400> 347															
Met	Lys	Ala	Leu	Gly	Ala	Val	Leu	Leu	Ala	Leu	Leu	Leu	Cys	Gly	Arg
1				5					10					15	
Pro	Gly	Arg	Gly	Gln	Thr	Gln	Gln	Glu	Glu	Glu	Glu	Glu	Asp	Glu	Asp
			20					25					30		
His	Gly	Pro	Asp	Asp	Tyr	Asp	Glu	Glu	Asp	Glu	Asp	Glu	Val	Glu	Glu
		35					40					45			
Glu	Glu	Thr	Asn	Arg	Leu	Pro	Gly	Gly	Arg	Ser	Arg	Val	Leu	Leu	Arg
	50					55					60				
Cys	Tyr	Thr	Cys	Lys	Ser	Leu	Pro	Arg	Asp	Glu	Arg	Cys	Asn	Leu	Thr
65					70					75				80	
Gln	Asn	Cys	Ser	His	Gly	Gln	Thr	Cys	Thr	Thr	Leu	Ile	Ala	His	Gly
				85				90						95	
Asn	Thr	Glu	Ser	Gly	Leu	Leu	Thr	Thr	His	Ser	Thr	Trp	Cys	Thr	Asp
		100					105						110		
Ser	Cys	Gln	Pro	Ile	Thr	Lys	Thr	Val	Glu	Gly	Thr	Gln	Val	Thr	Met



115		120		125											
Thr	Cys	Cys	Gln	Ser	Ser	Leu	Cys	Asn	Val	Pro	Pro	Trp	Gln	Ser	Ser
130						135					140				
Arg	Val	Gln	Asp	Pro	Thr	Gly	Lys	Gly	Ala	Gly	Gly	Pro	Arg	Gly	Ser
145					150					155					160
Ser	Glu	Thr	Val	Gly	Ala	Ala	Leu	Leu	Leu	Asn	Leu	Leu	Ala	Gly	Leu
				165					170					175	
Gly	Ala	Met	Gly	Ala	Arg	Arg	Pro								
				180											

<210> 348  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (21)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 348
Met Phe Ser Leu Ser Trp Gln Leu Ser Leu Val Thr Phe Met Gly Phe
1 5 10 15
Pro Ile Xaa Met Xaa Val Ser Asn Ile Tyr Gly Lys Xaa Tyr Lys Arg
20 25 30
Leu Ser Lys Glu Val Gln Asn Ala Leu Ala Arg Ala Ser Asn Thr Ala
35 40 45
Glu Glu Thr Ile Ser Ala Met Lys Thr Val Arg Ser Phe Ala Asn Glu
50 55 60
Glu Glu Glu Ala Glu Val Tyr Leu Arg Lys Leu Gln Gln Val Tyr Lys
65 70 75 80



Leu Asn Arg Lys Glu Ala Xaa Ala Tyr Met Tyr Tyr Val Trp Gly Ser  
85 90 95

Gly Leu Thr Leu Leu Val Val Gln Val Ser Ile Leu  
100 105

<210> 349

<211> 219

<212> PRT

<213> Homo sapiens

<400> 349

Val Thr Ile Leu Cys Ile Asp Leu Gly Thr Asp Met Val Pro Ala Ile  
1 5 10 15

Ser Leu Ala Tyr Glu Gln Ala Glu Ser Asp Ile Met Lys Arg Gln Pro  
20 25 30

Arg Asn Pro Lys Thr Asp Lys Leu Val Asn Glu Arg Leu Ile Ser Met  
35 40 45

Ala Tyr Gly Gln Ile Gly Met Ile Gln Ala Leu Gly Gly Phe Phe Thr  
50 55 60

Tyr Phe Val Ile Leu Ala Glu Asn Gly Phe Leu Pro Ile His Leu Leu  
65 70 75 80

Gly Leu Arg Val Asp Trp Asp Asp Arg Trp Ile Asn Asp Val Glu Asp  
85 90 95

Ser Tyr Gly Gln Gln Trp Thr Tyr Glu Gln Arg Lys Ile Val Glu Phe  
100 105 110

Thr Cys His Thr Ala Phe Phe Val Ser Ile Val Val Val Gln Trp Ala  
115 120 125

Asp Leu Val Ile Cys Lys Thr Arg Arg Asn Ser Val Phe Gln Gln Gly  
130 135 140

Met Lys Asn Lys Ile Leu Ile Phe Gly Leu Phe Glu Glu Thr Ala Leu  
145 150 155 160

Ala Ala Phe Leu Ser Tyr Cys Pro Gly Met Gly Val Ala Leu Arg Met  
165 170 175

Tyr Pro Leu Lys Pro Thr Trp Trp Phe Cys Ala Phe Pro Tyr Ser Leu  
180 185 190

Leu Ile Phe Val Tyr Asp Glu Val Arg Lys Leu Ile Ile Arg Arg Arg  
195 200 205

Pro Gly Gly Trp Val Glu Lys Glu Thr Tyr Tyr  
210 215

<210> 350  
<211> 73  
<212> PRT  
<213> Homo sapiens

<400> 350  
Phe Ser Ser Ser Met Ser Leu Ser Phe Leu Pro Phe Leu Pro Phe Leu  
1 5 10 15  
Ser Pro Cys Ser Glu Thr Ala Ala Gly Ser Tyr Leu Ser Arg Pro Thr  
20 25 30  
Pro Phe Pro Met Val Ala Val Leu Ser Ala Gly Ala Gly Ser Cys Arg  
35 40 45  
Trp Arg Ile Arg Glu Lys Ser Thr Glu Gln Leu Pro Ala Glu Arg Ala  
50 55 60  
Gly Pro Gly Glu Pro Ser Gly Gly Ser  
65 70

<210> 351  
<211> 296  
<212> PRT  
<213> Homo sapiens

<400> 351  
Met Phe Ser Leu Ser Trp Gln Leu Ser Leu Val Thr Phe Met Gly Phe  
1 5 10 15  
Pro Ile Ile Met Met Val Ser Asn Ile Tyr Gly Lys Tyr Tyr Lys Arg  
20 25 30  
Leu Ser Lys Glu Val Gln Asn Ala Leu Ala Arg Ala Ser Asn Thr Ala  
35 40 45  
Glu Glu Thr Ile Ser Ala Met Lys Thr Val Arg Ser Phe Ala Asn Glu  
50 55 60  
Glu Glu Glu Ala Glu Val Tyr Leu Arg Lys Leu Gln Gln Val Tyr Lys  
65 70 75 80  
Leu Asn Arg Lys Glu Ala Ala Ala Tyr Met Tyr Tyr Val Trp Gly Ser  
85 90 95  
Gly Leu Thr Leu Leu Val Val Gln Val Ser Ile Leu Tyr Tyr Gly Gly  
100 105 110  
His Leu Val Ile Ser Gly Gln Met Thr Ser Gly Asn Leu Ile Ala Phe  
115 120 125  
Ile Ile Tyr Glu Phe Val Leu Gly Asp Cys Met Glu Asn Val Ser Phe  
130 135 140

Ser	Leu	Ser	Pro	Gly	Lys	Val	Thr	Ala	Leu	Val	Gly	Pro	Ser	Gly	Ser	145	150	155	160
Gly	Lys	Ser	Ser	Cys	Val	Asn	Ile	Leu	Glu	Asn	Phe	Tyr	Pro	Leu	Glu	165	170	175	
Gly	Gly	Arg	Val	Leu	Leu	Asp	Gly	Lys	Pro	Ile	Ser	Ala	Tyr	Asp	His	180	185	190	
Lys	Tyr	Leu	His	Arg	Val	Ile	Ser	Leu	Val	Ser	Gln	Glu	Pro	Val	Leu	195	200	205	
Phe	Ala	Arg	Ser	Ile	Thr	Asp	Asn	Ile	Ser	Tyr	Gly	Leu	Pro	Thr	Val	210	215	220	
Pro	Phe	Glu	Met	Val	Val	Glu	Ala	Ala	Gln	Lys	Ala	Asn	Ala	His	Gly	225	230	235	240
Phe	Ile	Met	Glu	Leu	Gln	Asp	Gly	Tyr	Ser	Thr	Glu	Thr	Gly	Glu	Lys	245	250	255	
Gly	Ala	Gln	Leu	Ser	Gly	Gly	Gln	Lys	Gln	Arg	Val	Ala	Trp	Pro	Gly	260	265	270	
Leu	Trp	Cys	Gly	Thr	Pro	Gln	Ser	Ser	Ser	Trp	Met	Lys	Pro	Pro	Ala	275	280	285	
Leu	Trp	Met	Pro	Arg	Ala	Ser	Ile									290	295		

<210> 352  
 <211> 446  
 <212> PRT  
 <213> Homo sapiens

<400> 352

Met	Phe	Ser	Leu	Ser	Trp	Gln	Leu	Ser	Leu	Val	Thr	Phe	Met	Gly	Phe	1	5	10	15
Pro	Ile	Ile	Met	Met	Val	Ser	Asn	Ile	Tyr	Gly	Lys	Tyr	Tyr	Lys	Arg	20	25	30	
Leu	Ser	Lys	Glu	Val	Gln	Asn	Ala	Leu	Ala	Arg	Ala	Ser	Asn	Thr	Ala	35	40	45	
Glu	Glu	Thr	Ile	Ser	Ala	Met	Lys	Thr	Val	Arg	Ser	Phe	Ala	Asn	Glu	50	55	60	
Glu	Glu	Glu	Ala	Glu	Val	Tyr	Leu	Arg	Lys	Leu	Gln	Gln	Val	Tyr	Lys	65	70	75	80
Leu	Asn	Arg	Lys	Glu	Ala	Ala	Ala	Tyr	Met	Tyr	Tyr	Val	Trp	Gly	Ser	85	90	95	
Gly	Leu	Thr	Leu	Leu	Val	Val	Gln	Val	Ser	Ile	Leu	Tyr	Tyr	Gly	Gly				

100						105						110					
His	Leu	Val	Ile	Ser	Gly	Gln	Met	Thr	Ser	Gly	Asn	Leu	Ile	Ala	Phe		
		115					120					125					
Ile	Ile	Tyr	Glu	Phe	Val	Leu	Gly	Asp	Cys	Met	Glu	Ser	Val	Gly	Ser		
	130					135					140						
Val	Tyr	Ser	Gly	Leu	Met	Gln	Gly	Val	Gly	Ala	Ala	Glu	Lys	Val	Phe		
145					150					155					160		
Glu	Phe	Ile	Asp	Arg	Gln	Pro	Thr	Met	Val	His	Asp	Gly	Ser	Leu	Ala		
				165					170					175			
Pro	Asp	His	Leu	Glu	Gly	Arg	Val	Asp	Phe	Glu	Asn	Val	Thr	Phe	Thr		
			180					185					190				
Tyr	Arg	Thr	Arg	Pro	His	Thr	Gln	Val	Leu	Gln	Asn	Val	Ser	Phe	Ser		
		195					200					205					
Leu	Ser	Pro	Gly	Lys	Val	Thr	Ala	Leu	Val	Gly	Pro	Ser	Gly	Ser	Gly		
	210					215					220						
Lys	Ser	Ser	Cys	Val	Asn	Ile	Leu	Glu	Asn	Phe	Tyr	Pro	Leu	Glu	Gly		
225					230					235					240		
Gly	Arg	Val	Leu	Leu	Asp	Gly	Lys	Pro	Ile	Ser	Ala	Tyr	Asp	His	Lys		
				245					250					255			
Tyr	Leu	His	Arg	Val	Ile	Ser	Leu	Val	Ser	Gln	Glu	Pro	Val	Leu	Phe		
			260					265					270				
Ala	Arg	Ser	Ile	Thr	Asp	Asn	Ile	Ser	Tyr	Gly	Leu	Pro	Thr	Val	Pro		
		275					280					285					
Phe	Glu	Met	Val	Val	Glu	Ala	Ala	Gln	Lys	Ala	Asn	Ala	His	Gly	Phe		
	290					295					300						
Ile	Met	Glu	Leu	Gln	Asp	Gly	Tyr	Ser	Thr	Glu	Thr	Gly	Glu	Lys	Gly		
305					310					315					320		
Ala	Gln	Leu	Ser	Gly	Gly	Gln	Lys	Gln	Arg	Val	Ala	Met	Ala	Arg	Ala		
				325					330					335			
Leu	Val	Arg	Asn	Pro	Pro	Val	Leu	Ile	Leu	Asp	Glu	Ala	Thr	Ser	Ala		
			340					345					350				
Leu	Asp	Ala	Glu	Ser	Glu	Tyr	Leu	Ile	Gln	Gln	Ala	Ile	His	Gly	Asn		
		355					360					365					
Leu	Gln	Lys	His	Thr	Val	Leu	Ile	Ile	Ala	His	Arg	Leu	Ser	Thr	Val		
	370						375				380						
Glu	His	Ala	His	Leu	Ile	Val	Val	Leu	Asp	Lys	Gly	Arg	Val	Val	Gln		
385					390					395					400		
Gln	Gly	Thr	His	Gln	Gln	Leu	Leu	Ala	Gln	Gly	Gly	Leu	Tyr	Ala	Lys		

405 410 415  
Leu Val Gln Arg Gln Met Leu Gly Leu Gln Pro Ala Ala Asp Phe Thr  
420 425 430

Ala Gly His Asn Glu Pro Val Ala Asn Gly Ser His Lys Ala  
435 440 445

<210> 353  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 353  
Lys Phe Lys Gln Val Ile Lys Ser Phe Tyr Lys Ile His Leu Ala Lys  
1 5 10 15

Glu Ile Leu Ser Met Asn Ile Lys Leu Arg Lys Val Leu Tyr Val Phe  
20 25 30

Leu Val Asn  
35

<210> 354  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 354  
Met Ala Ile Phe Cys Phe Ser Leu Cys Ser Leu Gly Ser Ile Leu Gly  
1 5 10 15

Lys Gly Met Ser Thr Phe Gly Ser Ile Ser Val  
20 25

<210> 355  
<211> 99  
<212> PRT  
<213> Homo sapiens

<400> 355  
Met Gly Arg Val Ser Ile Gln Gln Leu Gly Val Leu Val Ala Leu Pro  
1 5 10 15

Val Pro Leu Leu Leu Leu Gly Cys Gly Ser Ala Leu His Pro Gly Ala  
20 25 30

Pro Arg Ser Ile Pro His Thr Met Pro Ser Thr Arg Glu Val Gly Gln  
35 40 45

Thr Arg Pro Gly Pro Cys Gln Pro Ser Val Pro Arg Phe Ser His Trp

50 ,                      55                      60  
 Leu His Arg Met Val Ala Phe Ser Leu Pro Thr Ser Gln Ser Cys Ser  
 65                      70                      75                      80  
 Glu Gly Ala Trp Arg Ser Thr Leu Ser His Gln Gly Gln Leu Glu Thr  
                     85                      90                      95  
 Lys Ala Ile

<210> 356  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 356  
 Met Gly Arg Val Ser Ile Gln Gln Leu Gly Val Leu Val Ala Leu Pro  
 1                      5                      10                      15  
 Val Pro Leu Leu Leu Leu Gly Cys Gly Ser Ala Leu His Pro Gly Ala  
                     20                      25                      30  
 Pro Arg Ser Ile Pro His Thr Met Pro Ser Thr Arg Glu Val Gly Gln  
                     35                      40                      45  
 Thr Arg Pro Gly Pro Cys Gln Pro Ser Val Pro Arg Phe Ser His Trp  
                     50                      55                      60  
 Leu His Arg Met Val Ala Phe Ser Leu Pro Thr Ser Gln Ser Cys Ser  
 65                      70                      75                      80  
 Glu Gly Ala Trp Arg Ser Thr Leu Ser His Gln Gly Gln Leu Glu Thr  
                     85                      90                      95  
 Lys Ala Ile

<210> 357  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 357  
 Met Gly Arg Val Ser Ile Gln Gln Leu Gly Val Leu Val Ala Leu Pro  
 1                      5                      10                      15  
 Val Pro Leu Leu Leu Leu Gly Cys Gly Ser Ala Leu His Pro Gly Ala

	20		25		30										
Pro	Arg	Ser	Ile	Pro	His	Thr	Met	Pro	Ser	Thr	Arg	Glu	Val	Gly	Gln
		35					40					45			
Thr	Arg	Pro	Gly	Pro	Cys	Gln	Pro	Ser	Val	Pro	Arg	Phe	Ser	His	Trp
	50					55					60				
Leu	His	Arg	Met	Val	Ala	Phe	Ser	Leu	Pro	Xaa	Ser	Gln	Ser	Cys	Ser
65					70					75					80
Glu	Gly	Ala	Trp	Arg	Ser	Thr	Leu	Ser	His	Gln	Gly	Gln	Leu	Glu	Thr
				85					90					95	
Lys	Ala	Ile													

<210> 358  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 358															
Pro	Ile	Pro	Trp	Leu	Cys	Pro	Pro	Ser	Pro	Thr	Leu	Pro	Leu	Leu	Ser
1				5					10					15	
Ile	Phe	Phe	Leu	Pro	Thr	His	Pro	Pro	Pro	Pro	Ser	Arg	Arg	Gly	Gly
			20					25					30		
Leu	Gly	Arg	Pro	Arg	Pro	Ser	Leu	Glu	Lys	Pro	Ser	Leu	Ser	Ser	Ala
		35					40					45			
Val	Val	Pro	Pro	Pro	Asn	Pro	Ile	Thr	Ala	Ala	His	Pro	Ile	Leu	Thr
	50					55					60				
Val	Ile	Leu													
65															

<210> 359  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 359			
Ala	Pro	Arg	Gly
1			

<210> 360  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 360

Met	Gln	Asn	Arg	Ser	Pro	Ala	Phe	Cys	Phe	Leu	Leu	Met	Tyr	Leu	Leu
1				5					10					15	
Cys	Thr	Cys	Val	Thr	Arg	Val	Leu	Leu	Ser	Ile	Ile	Phe	Asn	Leu	Ile
			20					25					30		
Arg	Ala	Tyr	Leu	Trp	Ser	Trp	His	Asp	Val	Thr	Pro	Cys	Val	Arg	Val
		35					40					45			
Gly	Ile	Thr	Pro	Val	Tyr	Leu	Phe	Leu	Ser	Ser	Ala	Ala	His	Asn	Ala
	50					55					60				
Arg	His	Ile	Val	Gly	Thr	Leu									
65					70										

<210> 361

<211> 71

<212> PRT

<213> Homo sapiens

<400> 361

Met	Gln	Asn	Arg	Ser	Pro	Ala	Phe	Cys	Phe	Leu	Leu	Met	Tyr	Leu	Leu
1				5					10					15	
Cys	Thr	Cys	Val	Thr	Arg	Val	Leu	Leu	Ser	Ile	Ile	Phe	Asn	Leu	Ile
			20					25					30		
Arg	Ala	Tyr	Leu	Trp	Ser	Trp	His	Asp	Val	Thr	Pro	Cys	Val	Arg	Val
		35					40					45			
Gly	Ile	Thr	Pro	Val	Tyr	Leu	Phe	Leu	Ser	Ser	Ala	Ala	His	Asn	Ala
	50					55					60				
Arg	His	Ile	Val	Gly	Thr	Leu									
65					70										

<210> 362

<211> 51

<212> PRT

<213> Homo sapiens

<400> 362

Met	Leu	Gln	Asp	Leu	Cys	Leu	Cys	Leu	Phe	Ser	Ser	Phe	Phe	Leu	Ser
1				5					10					15	
Leu	Phe	Val	Cys	Leu	Lys	Val	Gly	Gln	Lys	Ile	Leu	Leu	Leu	Thr	Asp
			20					25					30		
Phe	Pro	Trp	Ser	Ala	Ala	Val	Lys	Arg	Ser	Leu	Ser	Leu	Leu	Ser	Phe
		35					40					45			



Leu Met Glu  
50

<210> 363  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 363  
Met Leu Gln Asp Leu Cys Leu Cys Leu Phe Ser Ser Phe Phe Leu Ser  
1 5 10 15  
Leu Phe Val Cys Leu Lys Val Gly Gln Lys Ile Leu Leu Leu Thr Asp  
20 25 30  
Phe Pro Trp Ser Ala Ala Val Lys Arg Ser Leu Ser Leu Leu Ser Phe  
35 40 45

Leu Met Glu  
50

<210> 364  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 364  
Ser Cys Phe Leu Ala Leu Lys Ser Ile Leu Ala Val Cys Gly Gly Ser  
1 5 10 15  
His Leu Pro Pro Ala Leu Trp Glu Ala Ser Gly Gly Gly Leu Val Pro  
20 25 30  
Asn Ser Cys Ser Pro Gly Asp Pro Xaa Val Leu Glu Arg Pro Pro Pro  
35 40 45  
Arg Trp Ser Ser Ser  
50

<210> 365  
<211> 110  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 365

Met	Asp	Asn	Arg	Phe	Ala	Thr	Ala	Phe	Val	Ile	Ala	Cys	Val	Leu	Ser
1				5					10					15	

Leu	Ile	Ser	Thr	Ile	Tyr	Met	Ala	Ala	Ser	Ile	Gly	Thr	Asp	Phe	Trp
			20					25					30		

Tyr	Glu	Tyr	Arg	Ser	Pro	Val	Gln	Glu	Asn	Ser	Ser	Asp	Leu	Asn	Lys
		35					40					45			

Ser	Ile	Trp	Asp	Glu	Phe	Ile	Ser	Asp	Glu	Ala	Asp	Glu	Lys	Thr	Tyr
	50					55					60				

Asn	Asp	Ala	Leu	Phe	Arg	Tyr	Asn	Gly	Thr	Val	Gly	Leu	Trp	Arg	Arg
65					70					75					80

Cys	Ile	Thr	Ile	Pro	Lys	Asn	Met	His	Trp	Tyr	Ser	Pro	Pro	Glu	Arg
				85					90					95	

Xaa	Glu	Ser	Phe	Asp	Val	Val	Thr	Lys	Cys	Val	Ser	Ser	His
			100					105					110

<210> 366

<211> 165

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 366

Arg	Xaa	Thr	Xaa	Xaa	His	Phe	Ala	Arg	Thr	Tyr	Pro	Gly	Ile	His	Leu
1				5					10					15	

Arg	Ile	Gly	Ser	Asp	Trp	Lys	Asn	Ala	Cys	Ala	Met	Leu	Lys	Asp	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

	20		25		30										
Thr	Ala	Gly	Ser	His	Phe	Met	Ala	Ser	Pro	Gln	Cys	Val	Gly	Tyr	Ser
		35					40					45			
Arg	Ser	Thr	Ala	Ala	Pro	Leu	Thr	Met	Thr	Met	Cys	Leu	Pro	Asp	Leu
	50					55					60				
Lys	Glu	Ile	Gln	Arg	Ala	Val	Lys	Leu	Trp	Val	Arg	Ser	Leu	Asp	Ala
	65				70					75					80
Gln	Ser	Val	Tyr	Val	Ala	Thr	Asp	Ser	Glu	Ser	Tyr	Val	Pro	Glu	Leu
				85					90					95	
Gln	Gln	Leu	Phe	Lys	Gly	Lys	Val	Lys	Val	Val	Ser	Leu	Lys	Pro	Glu
			100					105					110		
Val	Ala	Gln	Val	Asp	Leu	Tyr	Ile	Leu	Gly	Gln	Ala	Asp	His	Phe	Ile
		115					120					125			
Gly	Asn	Cys	Val	Ser	Ser	Phe	Thr	Ala	Phe	Val	Lys	Arg	Glu	Arg	Asp
	130					135					140				
Leu	Gln	Gly	Xaa	Pro	Ser	Ser	Phe	Phe	Gly	Met	Asp	Arg	Pro	Pro	Lys
	145				150					155					160
Leu	Arg	Asp	Glu	Phe											
				165											

<210> 367  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<400>	367														
Leu	Val	Leu	Trp	Thr	Arg	Phe	Tyr	Arg	Gly	Asp	Met	Ser	Leu	His	Ser
	1				5				10					15	
Ser	Pro	Thr	Leu	Pro	Thr	Ser	Leu	Tyr	Gln	Ser	Cys	Asp	Leu	Ser	Val
			20					25					30		
Gly	Gly	Pro	Ser	Leu	Leu	Thr	Trp	Val	Trp	Arg	Arg	Glu	Arg	Arg	Cys
		35					40					45			
Cys	Lys	Val	Phe	Ser	Val	Ser	His	Cys	Leu	Glu	Ala	Gly	Pro	Ala	Lys
	50					55					60				
Ala	Trp	Ala	His	Ser	Cys	Thr	Gly	Ser	Pro	Arg	Gly	Arg	Thr	Gly	Trp
	65				70					75					80
Gly	Ser	Arg	Ala	Cys	Glu	Ala	Leu	Gly	Lys	Gly	Met	Gly	Leu	Trp	Gly
				85					90					95	
Arg	Gly	Gly	Met	Gly	Phe	Arg	Ser	Ile	Cys	Thr	Ile	Arg	Lys	Val	Leu
			100					105					110		

Arg Ser Phe Phe Leu Glu Gly Thr Leu Ser Ser Leu Ser Leu Phe Leu  
115 120 125

Asp Leu Gly Leu Glu Leu Arg Met Gly Arg Cys Ala Gln Gly Gly Thr  
130 135 140

His Gln Ser Thr Arg Glu Gly Gly Tyr Leu Gly Val Ser Gln Gly Leu  
145 150 155 160

Cys Gln Cys Leu Gln Pro Thr Ser Arg Ser Leu Glu Phe Gly Glu Trp  
165 170 175

Gly

<210> 368  
<211> 184  
<212> PRT  
<213> Homo sapiens

<400> 368  
Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser  
1 5 10 15

Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp  
20 25 30

Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys  
35 40 45

Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr  
50 55 60

Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg  
65 70 75 80

Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg  
85 90 95

Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr  
100 105 110

Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly  
115 120 125

Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro  
130 135 140

Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys  
145 150 155 160

Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu  
165 170 175

His Leu Leu Ala Asp Thr Met Leu  
180

<210> 369  
<211> 211  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (113)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 369  
Ser Thr His Ala Ser Gly Arg Thr Cys Ala Leu Pro Ala Ala Ala Thr  
1 5 10 15  
Pro Arg Arg Val Gly Ala Ala Ala Pro Gly Cys Ala Gln Gly Arg Ala  
20 25 30  
Thr Asp Gly Ala Arg Arg Ala Glu Leu Arg Arg Glu Pro Ala Val Val  
35 40 45  
Ala His Arg His Gly His Ala Gly Ala His Gln Gly Gly Ala Gln Xaa  
50 55 60  
Ala Ala Gln Pro His Arg Arg Leu Gln Val Pro Gln Ala Gln Ala Gly  
65 70 75 80  
Ala His Leu Ala Pro Gly Arg Glu Ser Glu Asp Pro Gln Glu Ser Glu  
85 90 95  
His Gly Ala Gly Val His Gly Glu Pro Ala Ala Arg Ala Gly Gly Ala  
100 105 110  
Xaa Gln Ala Glu Ser Pro Gln Pro Arg Gln Gln Arg Leu Pro Ala Ala  
115 120 125  
Ala Pro Ala Pro Gly Ala Arg Val Leu Ser Pro Arg Ala Gly Arg Met  
130 135 140  
Arg Gly His Pro Pro Gln Gly Ala Gly Ser Arg Gly Gly Val Val Gly  
145 150 155 160  
Ala Pro Asp Leu Glu Arg Val Arg Pro Trp Gly Pro Pro Leu Pro Glu  
165 170 175  
Cys Ala Gln Glu Leu Arg Glu Gly Ala Ala Pro Gly Asp Ser Pro Pro  
180 185 190

Pro Arg Val Pro Arg Thr Arg Gln Ala Gly Pro Pro Ala Pro Gly Gly  
195 200 205

Ala Ser Ala  
210

<210> 370  
<211> 225  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (166)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 370  
Arg Pro Asp Leu Glu Arg Val Arg Pro Trp Xaa Pro Pro Leu Pro Glu  
1 5 10 15

Cys Ala Gln Glu Leu Arg Glu Gly Ala Ala Pro Gly Ile Pro Pro Arg  
20 25 30

Gly Cys Pro Gly Leu Gly Arg Gly Ala Pro Asp Ser Thr Ser Trp Thr  
35 40 45

Pro Cys Ser Arg Gly Gly Glu Arg Met Thr Pro Pro Pro Ser Arg Cys  
50 55 60

Leu Phe Pro Pro Arg Gly Arg Pro Val Leu His Lys Pro Ala Arg Leu  
65 70 75 80

Gly Cys Pro Phe Val His Arg Ala Gly Lys Gly Ala Pro Arg Gly Arg  
85 90 95

Ser Ser Lys Pro Cys Leu Ser Phe Thr Phe Thr Phe Phe Phe Xaa  
100 105 110

Phe Gly Arg Glu Lys Asn Arg Val Phe Asp Ser Ala Leu Phe Met Phe  
115 120 125

Leu Leu Gly Asn Lys Arg Trp Leu Cys Val Cys Val Phe Ser Cys Val  
130 135 140

Gly Phe Leu Lys Lys Trp Glu Glu Glu Lys Lys Ile Leu Arg Pro Phe

145		150		155		160
Pro	Arg	Ser	Arg	Ser	Xaa	Leu
				165		
Phe	Phe	Val	Leu	Phe	Cys	Phe
			180			185
Cys	Asn	Pro	Trp	Phe	Ala	Arg
		195				200
Arg	Gln	Lys	Pro	Arg	Ala	Glu
	210					215
Pro						
225						

<210> 371  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 371
Met Ile Pro Phe Phe Leu Val Trp Val Ser Phe Leu His Ser Phe Ser
1 5 10 15
Val Ala Cys Ile Leu Gly His His Glu Cys Phe Ala Phe Ser Leu Ala
20 25 30
Asp Asp Thr Ile Gly Thr Ala Trp His Gly Gly Lys Val Ser His Lys
35 40 45
Leu Thr Tyr Lys His Cys Gly Ser Arg Ala His Asp Tyr Leu Glu Gly
50 55 60
Glu Ser Leu Leu
65

<210> 372  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 372
Val Ile Pro Phe Tyr Ile His Tyr Phe Val Tyr Phe Asn Cys Phe Ile
1 5 10 15
Leu Val Thr Leu Pro Phe Lys Ile Phe Lys Leu Pro Ile Val Arg Cys
20 25 30
Gln Trp Glu Trp Thr Pro Asp Gly Gln Ile Tyr Lys Trp Gln Trp Leu
35 40 45

Asp Gln Thr Arg Thr Leu Glu Asp Gly Arg Val Gly Ala Lys  
50 55 60

<210> 373  
<211> 29  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 373  
Ile Pro Leu Trp Phe Ile Ser Val Ser Phe Xaa Met Xaa Arg Phe Thr  
1 5 10 15

Ile Leu Asn Gln Tyr His Val Thr Cys Arg Cys Gln Asn  
20 25

<210> 374  
<211> 68  
<212> PRT  
<213> Homo sapiens

<400> 374  
Met Ile Pro Phe Phe Leu Val Trp Val Ser Phe Leu His Ser Phe Ser  
1 5 10 15

Val Ala Cys Ile Leu Gly His His Glu Cys Phe Ala Phe Ser Leu Ala  
20 25 30

Asp Asp Thr Ile Gly Thr Ala Trp His Gly Gly Lys Val Ser His Lys  
35 40 45

Leu Thr Tyr Lys His Cys Gly Ser Arg Ala His Asp Tyr Leu Glu Gly  
50 55 60

Glu Ser Leu Leu  
65

<210> 375  
<211> 57  
<212> PRT  
<213> Homo sapiens



<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 375  
Leu Leu Ser Ala Met Leu Pro Gly Glu Asn Glu Ile Val Ala Trp Ile  
1 5 10 15  
Asn Glu Ser Val Cys Val Ala Arg Ser Gly Leu Ala Leu Asp Val Asp  
20 25 30  
Gly Ala Pro Ala Leu Ser Pro Gln Leu Xaa Ser Xaa Lys Ile Ser Asn  
35 40 45  
Leu Glu Glu Asn Gly Arg Thr Val Glu  
50 55

<210> 376  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 376  
Met Ala Leu Val Val Glu Ala Val Ile Ile Ile Phe Ile Glu Cys Gln  
1 5 10 15  
Ala Leu Cys Ile Ile Leu Ser Ser Ser His Ile Asn Arg Arg Arg Gln  
20 25 30  
Val Val Ile Ala Pro Phe Gly Glu Ser Glu Asn  
35 40

<210> 377  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 377  
Ser Ala Cys Phe Cys Cys Ala Ala Ser Ser Leu Phe Ser Ser Phe Ser  
1 5 10 15  
Ile Val Ser Pro Leu Trp Lys Lys  
20

<210> 378

<211> 477  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (105)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (109)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (152)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (194)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (197)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (198)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (203)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (459)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (463)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (468)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 378

Met	Val	Asn	Ala	Cys	Trp	Cys	Gly	Leu	Leu	Ala	Ala	Leu	Ser	Leu	Leu	
1				5				10						15		
Leu	Asp	Ala	Ser	Thr	Asp	Glu	Ala	Ala	Thr	Glu	Asn	Ile	Leu	Lys	Ala	
			20					25						30		
Glu	Leu	Thr	Met	Ala	Ala	Leu	Cys	Gly	Lys	Leu	Gly	Leu	Val	Thr	Ser	
		35					40					45				
Xaa	Asn	Ala	Phe	Ile	Thr	Ala	Ile	Xaa	Lys	Gly	Ser	Leu	Pro	Pro	His	
	50					55					60					
Tyr	Ala	Leu	Thr	Val	Leu	Asn	Thr	Thr	Thr	Ala	Ala	Thr	Leu	Ser	Asn	
65					70					75					80	
Lys	Ser	Tyr	Ser	Val	Gln	Gly	Gln	Ser	Val	Met	Met	Ile	Ser	Pro	Ser	
				85					90						95	
Ser	Glu	Ser	His	Gln	Gln	Val	Val	Xaa	Val	Gly	Gln	Xaa	Leu	Ala	Val	
			100					105						110		
Gln	Pro	Gln	Gly	Thr	Val	Met	Leu	Thr	Ser	Lys	Asn	Ile	Gln	Cys	Met	
		115					120					125				
Arg	Thr	Leu	Leu	Asn	Leu	Ala	His	Cys	His	Gly	Ala	Val	Leu	Gly	Thr	
	130					135					140					
Ser	Trp	Gln	Leu	Val	Leu	Ala	Xaa	Leu	Gln	His	Leu	Val	Trp	Ile	Leu	
145					150					155					160	
Gly	Leu	Lys	Pro	Ser	Ser	Gly	Gly	Ala	Leu	Lys	Pro	Gly	Arg	Ala	Val	
				165					170					175		
Glu	Gly	Pro	Ser	Thr	Val	Leu	Thr	Thr	Ala	Val	Met	Thr	Asp	Leu	Pro	
			180					185						190		
Val	Xaa	Ser	Asn	Xaa	Xaa	Ser	Arg	Leu	Phe	Xaa	Ser	Ser	Gln	Tyr	Leu	
	195						200						205			
Asp	Asp	Val	Ser	Leu	His	His	Leu	Ile	Asn	Ala	Leu	Cys	Ser	Leu	Ser	
	210					215					220					
Leu	Glu	Ala	Met	Asp	Met	Ala	Tyr	Gly	Asn	Asn	Lys	Glu	Pro	Ser	Leu	
225					230					235					240	
Phe	Ala	Val	Ala	Lys	Leu	Leu	Glu	Thr	Gly	Leu	Val	Asn	Met	His	Arg	
				245					250					255		
Ile	Glu	Ile	Leu	Trp	Arg	Pro	Leu	Thr	Gly	His	Leu	Leu	Glu	Val	Cys	

260								265				270			
Gln	His	Pro	Asn	Ser	Arg	Met	Arg	Glu	Trp	Gly	Ala	Glu	Ala	Leu	Thr
275				280				285							
Ser	Leu	Ile	Lys	Ala	Gly	Leu	Thr	Phe	Asn	His	Asp	Pro	Pro	Leu	Ser
290				295				300							
Gln	Asn	Gln	Arg	Leu	Gln	Leu	Leu	Leu	Leu	Asn	Pro	Leu	Lys	Glu	Met
305				310				315				320			
Ser	Asn	Ile	Asn	His	Pro	Asp	Ile	Arg	Leu	Lys	Gln	Leu	Glu	Cys	Val
				325				330				335			
Leu	Gln	Ile	Leu	Gln	Ser	Gln	Gly	Asp	Ser	Leu	Gly	Pro	Gly	Trp	Pro
				340				345				350			
Leu	Val	Leu	Gly	Val	Met	Gly	Ala	Ile	Arg	Asn	Asp	Gln	Gly	Glu	Ser
355				360				365							
Leu	Ile	Arg	Thr	Ala	Phe	Gln	Cys	Leu	Gln	Leu	Val	Val	Thr	Asp	Phe
370				375				380							
Leu	Pro	Thr	Met	Pro	Cys	Thr	Cys	Leu	Gln	Ile	Val	Val	Asp	Val	Ala
385				390				395				400			
Gly	Ser	Phe	Gly	Leu	His	Asn	Gln	Glu	Leu	Asn	Ile	Ser	Leu	Thr	Ser
				405				410				415			
Ile	Gly	Leu	Leu	Trp	Asn	Ile	Ser	Asp	Tyr	Phe	Phe	Gln	Arg	Gly	Glu
				420				425				430			
Thr	Ile	Glu	Lys	Glu	Leu	Asn	Lys	Glu	Glu	Ala	Ala	Gln	Gln	Lys	Gln
435				440				445							
Ala	Glu	Glu	Lys	Gly	Val	Gly	Leu	Asn	Arg	Xaa	Phe	His	Pro	Xaa	Pro
450				455				460							
Ala	Phe	Asp	Xaa	Trp	Gly	Tyr	Ala	Leu	Cys	Lys	Ile	Gly			
465				470				475							

<210> 379

<211> 29

<212> PRT

<213> Homo sapiens

<400> 379

Asn	Ser	Gln	Tyr	Phe	Thr	Thr	Asn	Ile	Ala	Leu	Met	Phe	Leu	Phe	Lys
1				5					10					15	

Lys	Lys	Lys	Val	Tyr	Gly	Cys	Leu	His	Leu	Ser	Thr	Val
			20					25				

<210> 380  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 380  
Met His Leu Asn Val Gln Tyr Cys Thr Ile His Leu Ile Leu Leu Leu  
1 5 10 15  
Leu Phe Ile Thr Arg His Tyr Ala Tyr Gln Trp Thr Phe Gln Val Gly  
20 25 30  
Gly Leu Thr Val Ala Ser Ser Val Val Trp Gln His Pro Ser Ala Val  
35 40 45  
Ser Ile Tyr Thr Leu Leu Tyr Ile Tyr Ala Pro His Gln Gly Ser Thr  
50 55 60  
Gly Thr Arg Arg His Cys  
65 70

<210> 381  
<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 381  
Leu Gln Glu Phe Gly Thr Ser Gly Thr Ser Ala Asn Thr Thr Ala Val  
1 5 10 15  
Ala Leu Asn Ala Pro Ala His Pro Ala Arg Leu Leu Pro Pro Gly Pro  
20 25 30  
Ala Val Ala Leu Leu Leu Leu Arg Gly Ser Cys Ser Leu Cys Cys Cys  
35 40 45  
His Gln Pro His Lys Ala Ser Cys Lys Ala Met Pro Ser Ala Gly Ser  
50 55 60  
Asn Val Pro  
65

<210> 382  
<211> 79  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<220>

<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 382  
Met Gly Cys Cys Ser Lys Lys Tyr Trp Gln Leu Leu Leu Gly Ala Ala  
1 5 10 15  
Pro Trp Gly Val Ile Pro Xaa Leu Leu Leu Trp Met Gly Thr Arg Ala  
20 25 30  
Pro His Phe Lys Asp Ser Val Ser Gln Gly Leu Pro Xaa Lys Ala Glu  
35 40 45  
Glu Ser Arg Ala Asn Phe Asn Gln Phe Leu Val Leu Leu Met Pro Lys  
50 55 60  
Glu Met Ile Val Leu Thr Ile Val His Pro Ile Val Arg Arg Ala  
65 70 75

<210> 383  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 383  
Met Phe Leu Val Ser Pro Ser Val Ser Ser Val Val Ser Ser Leu Leu  
1 5 10 15  
Ser Ile Phe Trp Leu Met His Leu Gly Gln Val Trp Leu Gly Ser Met  
20 25 30  
Glu Thr His Pro Ile Thr Ser  
35

<210> 384  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 384  
Met Phe Leu Val Ser Pro Ser Val Ser Ser Val Val Ser Ser Leu Leu  
1 5 10 15  
Ser Ile Phe Trp Leu Met His Leu Gly Gln Val Trp Leu Gly Ser Met  
20 25 30  
Glu Thr His Pro Ile Thr Ser  
35

<210> 385

<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 385  
Met Phe Leu Val Ser Pro Ser Val Ser Ser Val Val Ser Ser Leu Leu  
1 5 10 15  
Ser Ile Phe Trp Leu Met His Leu Gly Gln Val Trp Leu Gly Ser Met  
20 25 30  
Glu Thr His Pro Ile Thr Ser  
35

<210> 386  
<211> 198  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (97)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (164)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (196)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 386  
Pro Asp Pro Asn Ala Arg Arg Gly Xaa Asn Ala Xaa Ser Thr Arg Thr  
1 5 10 15  
Asp His Glu His Arg Thr Tyr Arg Leu Tyr Arg Arg Pro Ser Arg Phe  
20 25 30  
Arg Asp Ser Pro Ala Gln Arg Pro Tyr Pro Ala Ala Gly Tyr Val Glu  
35 40 45  
Thr Val Ala Arg Ala His Glu Ala Ala Gly Phe Asp Arg Ala Leu Val

50		55		60
Ala Phe His Ser Asn Ser Pro Asp Ser Thr Leu Ile Ala Ala His Ala				
65		70		75 80
Ala Ser Val Thr Gln Lys Leu Gln Phe Leu Ile Ala His Arg Pro Gly				
	85		90	95
Xaa Ala Gln Pro Thr Leu Ala Ala Arg Gln Phe Ala Thr Leu Asp Val				
	100		105	110
Phe Asn Gly Gly Arg Thr Ala Val His Ile Ile Thr Gly Gly Asp Asp				
	115		120	125
Arg Glu Leu Arg Ala Asp Gly Ser His Ile Gly Lys Asp Glu Arg Tyr				
	130		135	140
Ala Arg Thr Asp Glu Tyr Leu Ser Val Val Arg Gln Glu Trp Thr His				
145		150		155 160
Glu Gln Pro Xaa Asp Phe Lys Gly Thr Tyr Tyr Gln Val Glu Gly Ala				
	165		170	175
His Ser Thr Val Lys Ser Pro Gln Gln Pro His Ile Pro Leu Tyr Phe				
	180		185	190
Gly Gly Ser Xaa Arg Gly				
	195			

<210> 387  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 387  
 Glu Leu Gly Arg Leu Arg His Pro Thr Gln Gly Lys Pro Ala Cys His  
 1 5 10 15  
 Ile Glu Cys Thr Ala Leu Ile Lys Phe Thr His Asp Asn Ser Ala Phe  
 20 25 30  
 Tyr Asn

<210> 388  
 <211> 207  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids



<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (133)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 388  
 Met Arg Pro Trp Arg Phe Gly Trp Pro Arg Thr Leu Ala Ser Gln Leu  
     1                    5                    10                    15  
 Ser Leu Ile Phe Leu Ile Ser Leu Val Cys Ala His Gly Leu Ser Phe  
             20                    25                    30  
 Ser Ala Gln Phe Tyr Glu Arg Tyr Ile Ser Ala Arg Thr Val Met Leu  
             35                    40                    45  
 Gly Asn Leu Glu Asn Asp Val Ser Thr Ser Val Ala Ile Leu Asp Arg  
             50                    55                    60  
 Leu Pro Ala Asn Glu Arg Ala Ile Gly Trp Arg Val Leu Arg Pro Ala  
     65                    70                    75                    80  
 Glu Leu Pro Val Leu Leu Asn Ala Gly Glu Ala Gly Glu Pro Met Thr  
             85                    90                    95  
 Ser Asn Asp Val Pro Met Ala Ala Xaa Phe Asp Cys Gly Xaa Xaa Gly  
             100                    105                    110  
 Arg Ala Leu Xaa Pro Asp Leu Ser Arg Tyr Ser Arg His Pro Glu Thr  
             115                    120                    125  
 Xaa Pro Gly Ala Xaa Asp Pro Gly Arg Trp Gln Pro Asp His Pro Arg  
             130                    135                    140  
 Arg Thr Pro Arg Arg Pro Ala Arg Ser Leu Leu Val Ala Gly Gly Ala  
     145                    150                    155                    160

Gly	Ala	Ala	Thr	Gly	Ala	Ala	Ala	Arg	Leu	His	Leu	Gly	Arg	Gly	Ala
				165					170					175	
Pro	Gly	Arg	Ala	Pro	Ala	Asp	Thr	Pro	Gly	Pro	Cys	Gly	Arg	Asn	Pro
			180					185					190		
Arg	Pro	Glu	Arg	Ser	Pro	His	Thr	Pro	Gly	Arg	Asn	Arg	Pro	Glu	
		195					200					205			

<210> 389  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Gly	Trp	Pro	Arg	Trp	Arg	Arg	Glu	Arg	Cys	Ala	Asn	Thr	Pro	Xaa	Val
1				5					10					15	

Xaa Leu

<210> 390  
 <211> 435  
 <212> PRT  
 <213> Homo sapiens

Met	Arg	Pro	Trp	Arg	Phe	Gly	Trp	Pro	Arg	Thr	Leu	Ala	Ser	Gln	Leu
1				5					10					15	
Ser	Leu	Ile	Phe	Leu	Ile	Ser	Leu	Val	Cys	Ala	His	Gly	Leu	Ser	Phe
			20					25					30		
Ser	Ala	Gln	Phe	Tyr	Glu	Arg	Tyr	Ile	Ser	Ala	Arg	Thr	Val	Met	Leu
		35					40					45			
Gly	Asn	Leu	Glu	Asn	Asp	Val	Ser	Thr	Ser	Val	Ala	Ile	Leu	Asp	Arg
		50				55					60				
Leu	Pro	Ala	Asn	Glu	Arg	Ala	Ser	Trp	Leu	Ala	Arg	Leu	Asp	Arg	Gln
		65			70					75					80
Asn	Tyr	Arg	Tyr	Leu	Leu	Asn	Ala	Gly	Glu	Ala	Gly	Glu	Pro	Met	Thr

85								90				95			
Ser	Asn	Asp	Val	Pro	Met	Ala	Ala	Thr	Ser	Ile	Ala	Asp	Ala	Leu	Gly
			100					105					110		
Glu	His	Tyr	Ala	Leu	Thr	Phe	Arg	Asp	Ile	Pro	Gly	Ile	Gln	Lys	His
		115					120					125			
Phe	Gln	Val	His	Leu	Thr	Leu	Ala	Asp	Gly	Asn	Pro	Ile	Thr	Leu	Asp
	130					135					140				
Val	Arg	Pro	Ala	Ala	Leu	Pro	Val	Ala	Tyr	Trp	Leu	Pro	Val	Val	Leu
145					150					155					160
Val	Leu	Gln	Leu	Ala	Leu	Leu	Leu	Gly	Cys	Thr	Trp	Val	Ala	Val	Arg
				165					170					175	
Leu	Ala	Val	Arg	Pro	Leu	Thr	Arg	Leu	Ala	Arg	Ala	Val	Glu	Thr	Leu
			180					185					190		
Asp	Pro	Asn	Ala	His	Pro	Thr	Pro	Leu	Asp	Glu	Thr	Gly	Pro	Ser	Glu
		195					200					205			
Val	Ala	His	Ala	Ala	Ala	Ala	Phe	Asn	Ala	Met	Gln	Gln	Arg	Ile	Ala
	210					215					220				
Glu	Tyr	Leu	Lys	Glu	Arg	Met	Gln	Ile	Leu	Ala	Ala	Ile	Ser	His	Asp
225					230					235					240
Leu	Gln	Thr	Pro	Ile	Thr	Arg	Met	Lys	Leu	Arg	Ala	Glu	Phe	Met	Asp
				245					250					255	
Asp	Ser	Ala	Asp	Arg	Glu	Lys	Leu	Trp	Ser	Asp	Leu	Ser	Glu	Met	Glu
			260					265					270		
His	Leu	Val	Arg	Glu	Gly	Val	Ala	Tyr	Ala	Arg	Ser	Val	His	Gly	Ala
		275					280					285			
Thr	Glu	Ala	Ser	His	Arg	Ile	Asp	Leu	Asp	Ala	Phe	Leu	Asp	Ser	Leu
	290					295					300				
Val	Phe	Asp	Tyr	Gln	Asp	Met	Gln	Lys	Gln	Val	Ser	Leu	Arg	Gly	Lys
305					310					315					320
Ser	Ala	Leu	Ile	Leu	Asp	Thr	Arg	Pro	His	Ala	Leu	Arg	Arg	Val	Leu
				325					330					335	
Val	Asn	Leu	Val	Asp	Asn	Ala	Leu	Lys	Phe	Ala	Gly	Asn	Ala	Glu	Leu
			340					345					350		
Glu	Val	Gly	Ser	Thr	Ala	Asn	Gly	Gln	Leu	Ser	Ile	Lys	Val	Leu	Asp
		355					360					365			
Gln	Gly	Pro	Gly	Ile	Ala	Glu	Asp	Glu	Leu	Ala	Gln	Val	Leu	Gln	Pro
	370					375					380				
Phe	Tyr	Arg	Val	Glu	Ser	Ser	Arg	Asn	Arg	Gly	Thr	Gly	Gly	Thr	Gly



35

<210> 394  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 394  
Met Ala Gly His Pro Thr Leu Ile Leu Leu Cys Lys Trp Ala Phe His  
1 5 10 15  
Leu Thr Gly Ala Ile Cys Glu Pro Tyr Leu Asn Gln Thr Leu Pro Thr  
20 25 30  
Gln Ala Cys Leu  
35

<210> 395  
<211> 41  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 395  
Met Trp Leu Met Leu Ile Leu Ser Leu Thr Ser Gly Glu Thr Xaa Ala  
1 5 10 15  
Leu Arg Gly Cys Cys Ser Ser Ser Trp Thr Tyr Gly Glu Ser Ala Ala  
20 25 30  
Gly Pro Ala Asp Gln Ala Pro Cys Leu  
35 40

<210> 396  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 396  
Met Trp Leu Met Leu Ile Leu Ser Leu Thr Ser Gly Glu Thr Glu Ala  
1 5 10 15  
Leu Arg Gly Cys Cys Ser Ser Ser Trp Thr Tyr Gly Glu Ser Ala Ala  
20 25 30  
Gly Pro Ala Asp Gln Ala Pro Cys Leu  
35 40

<210> 397  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 397  
Ile Phe Ala Leu Ser Leu Ser Phe Tyr Thr Cys Ile His Ile His Thr  
1 5 10 15  
His Arg His Thr  
20

<210> 398  
<211> 117  
<212> PRT  
<213> Homo sapiens

<400> 398  
Met Cys Thr Leu Phe Val Leu Ala Val Leu Leu Pro Val Leu Phe Leu  
1 5 10 15  
Leu Tyr Arg His Arg Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu  
20 25 30  
Cys Ala Ser Val His Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu  
35 40 45  
Thr Arg Pro Leu Asn Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His  
50 55 60  
Arg Gly Tyr Gln Ser Leu Ser Asp Ser Pro Pro Gly Ala Arg Val Phe  
65 70 75 80  
Thr Glu Ser Glu Lys Arg Pro Leu Ser Ile Gln Asp Ser Phe Val Glu  
85 90 95  
Val Ser Pro Val Cys Pro Arg Pro Arg Val Arg Leu Gly Ser Glu Ile  
100 105 110  
Arg Asp Ser Val Val  
115

<210> 399  
<211> 183  
<212> PRT  
<213> Homo sapiens

<400> 399  
Met Met Asn Val Ser Lys Ile Ser Phe Phe Ala Met Phe Leu Met Tyr  
1 5 10 15

Leu Leu Ala Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Glu His Val Glu  
                   20                  25                  30  
 Ser Glu Leu Leu His Thr Tyr Ser Ser Ile Leu Gly Thr Asp Ile Leu  
                   35                  40                  45  
 Leu Leu Ile Val Arg Leu Ala Val Leu Met Ala Val Thr Leu Thr Val  
                   50                  55                  60  
 Pro Val Val Ile Phe Pro Ile Arg Ser Ser Val Thr His Leu Leu Cys  
                   65                  70                  75                  80  
 Ala Ser Lys Asp Phe Ser Trp Trp Arg His Ser Leu Ile Thr Val Ser  
                   85                  90                  95  
 Ile Leu Ala Phe Thr Asn Leu Leu Val Ile Phe Val Pro Thr Ile Arg  
                   100                  105                  110  
 Asp Ile Phe Gly Phe Ile Gly Ala Ser Ala Ala Ser Met Leu Ile Phe  
                   115                  120                  125  
 Ile Leu Pro Ser Ala Phe Tyr Ile Lys Leu Val Lys Lys Glu Pro Met  
                   130                  135                  140  
 Lys Ser Val Gln Lys Ile Gly Ala Leu Phe Phe Leu Leu Ser Gly Val  
                   145                  150                  155                  160  
 Leu Val Met Thr Gly Ser Met Ala Leu Ile Val Leu Asp Trp Val His  
                   165                  170                  175  
 Asn Ala Pro Gly Gly Gly His  
                   180

<210> 400  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 400  
 Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly  
                   1                  5                  10                  15  
 Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu  
                   20                  25                  30  
 Leu Ser Leu Leu Asp Cys  
                   35

<210> 401  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 401

Met Val Ser Lys His Ser Leu Asn Leu His Phe Phe Tyr Trp Lys Gly  
1 5 10 15

Gly Cys Ala Cys Phe Thr Ser Glu Pro Arg Val Phe Val Val Val Glu  
20 25 30

Leu Ser Leu Leu Asp Cys  
35

<210> 402

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 402

Ile Gly Pro Leu Leu Val Tyr Val Ser Xaa Thr His Glu Ser Leu Lys  
1 5 10 15

Leu Trp Gln Leu Lys Glu Thr Leu Ile Gln Ser Phe Pro Ala Leu Val  
20 25 30

Arg Ser Leu Gly Pro Gly Leu Leu Phe Gly Pro Pro Ile Ala Thr Gly  
35 40 45

Xaa Thr Gln Ala Gly Asp Met Ala Asp Lys Ser Gln Ala Gly Pro Arg  
50 55 60

Gly Ser Val Ser Ser Val Ala Trp Gly Pro Phe Pro Gly Gly Ser Gly  
65 70 75 80

Ala Leu Ala Phe Cys Pro Leu Ile Leu Arg Ser His  
85 90

<210> 403

<211> 24

<212> PRT

<213> Homo sapiens

<400> 403

Met His Ile Phe Thr Ile Leu Tyr Pro Ile Ser Glu Gly Phe Phe Lys  
1 5 10 15



Ile Phe Asn Phe Ile Val Phe Phe  
20

<210> 404  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 404  
Xaa Ser Gly Asp Leu Pro Thr Ser Ala Phe Pro Lys Cys Trp Asp Tyr  
1 5 10 15  
Arg Pro Glu Pro Pro Cys Pro Ala Gln Ala Gln Thr Ser Val Leu Cys  
20 25 30  
Val Thr Ser Trp Ser Arg Leu Thr Val Ser Thr Leu Thr Ser Thr Ser  
35 40 45  
Gln Ala Glu Gly Val Arg Ala Leu Pro Ile Trp Pro Ser Ser Gln Val  
50 55 60  
Cys Ser Ile Gln Pro  
65

<210> 405  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 405  
Ser Gln Gln Thr Leu Leu Ile Arg Pro Cys Cys Asn Lys Gln Thr Pro  
1 5 10 15  
Ile Thr Asn His Pro His Cys Thr Gly Gly Gly His Gly Lys His Lys  
20 25 30  
Gln Thr Leu Pro Thr Pro Ser Cys Asn Lys Arg His Lys Val Ile Cys  
35 40 45  
Ser Lys Ile Asn Gln Gln Thr Thr Pro Gly Cys Gly His Thr Lys Glu  
50 55 60  
Leu His Gln Thr Pro Leu Pro Asn Ile Asn Pro Ser Phe Cys Lys Leu  
65 70 75 80  
Gly Ala Thr Ser Ser Leu Thr Val Lys Gly Ala Ala Ser Arg Leu Ile  
85 90 95

Lys Ser Tyr Leu Pro Lys Lys Lys Lys Lys Lys Asn Ser Arg  
100 105 110

<210> 406  
<211> 79  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (67)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 406  
Met Val Phe Phe Gln Ile Gln Ser Leu Leu Ser Phe Leu Ala Ser Ser  
1 5 10 15  
Leu Ser Ile Ile Phe Leu Leu Pro Arg Cys Leu Ile Pro Pro Ala Asn  
20 25 30  
Gly Thr Ala Gly Ser Ser Cys Ser Glu Phe Gln Thr Leu His Thr Phe  
35 40 45  
His Pro Gln Ala Ser Cys Ala His Ala Gly Pro Ser Asn Leu Tyr Thr  
50 55 60  
Phe Leu Xaa Leu Phe Asp Leu Ser Ala Lys Val Ser Pro Leu Met  
65 70 75

<210> 407  
<211> 79  
<212> PRT  
<213> Homo sapiens

<400> 407  
Met Val Phe Phe Gln Ile Gln Ser Leu Leu Ser Phe Leu Ala Ser Ser  
1 5 10 15  
Leu Ser Ile Ile Phe Leu Leu Pro Arg Cys Leu Ile Pro Pro Ala Asn  
20 25 30  
Gly Thr Ala Gly Ser Ser Cys Ser Glu Phe Gln Thr Leu His Thr Phe  
35 40 45  
His Pro Gln Ala Ser Cys Ala His Ala Gly Pro Ser Asn Leu Tyr Thr  
50 55 60  
Phe Leu Arg Leu Phe Asp Leu Ser Ala Lys Val Ser Pro Leu Met  
65 70 75

<210> 408  
<211> 325  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (136)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (186)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (234)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 408  
Val Pro Pro Ala Val Cys Pro Ala Gly Xaa Phe Cys Gln Asn Gln Cys  
1 5 10 15  
Phe Thr Lys Arg Gln Tyr Pro Glu Thr Lys Ile Ile Lys Thr Asp Gly  
20 25 30  
Lys Gly Trp Gly Leu Val Ala Lys Arg Asp Ile Arg Lys Gly Glu Phe  
35 40 45  
Val Asn Glu Tyr Val Gly Glu Leu Ile Asp Glu Glu Glu Cys Met Ala  
50 55 60  
Arg Ile Lys His Ala His Glu Asn Asp Ile Thr His Phe Tyr Met Leu  
65 70 75 80  
Thr Ile Asp Lys Asp Arg Ile Ile Asp Ala Gly Pro Lys Gly Asn Tyr  
85 90 95  
Ser Arg Phe Met Asn His Ser Cys Gln Pro Asn Cys Glu Thr Leu Lys  
100 105 110  
Trp Thr Val Asn Gly Asp Thr Arg Val Gly Leu Phe Ala Val Cys Asp  
115 120 125  
Ile Pro Ala Gly Thr Glu Leu Xaa Phe Asn Tyr Asn Leu Asp Cys Leu  
130 135 140  
Gly Asn Glu Lys Thr Val Cys Arg Cys Gly Ala Ser Asn Cys Ser Gly  
145 150 155 160  
Phe Leu Gly Asp Arg Pro Lys Thr Ser Thr Thr Leu Ser Ser Glu Glu

165								170				175			
Lys	Gly	Lys	Lys	Thr	Lys	Lys	Lys	Thr	Xaa	Arg	Arg	Arg	Ala	Lys	Gly
			180					185					190		
Glu	Gly	Lys	Arg	Gln	Ser	Glu	Asp	Glu	Cys	Phe	Arg	Cys	Gly	Asp	Gly
		195					200					205			
Gly	Gln	Leu	Val	Leu	Cys	Asp	Arg	Lys	Phe	Cys	Thr	Lys	Ala	Tyr	His
	210					215					220				
Leu	Ser	Cys	Leu	Gly	Leu	Gly	Lys	Arg	Xaa	Phe	Gly	Lys	Trp	Glu	Cys
225					230					235					240
Pro	Trp	His	His	Cys	Asp	Val	Cys	Gly	Lys	Pro	Ser	Thr	Ser	Phe	Cys
				245					250					255	
His	Leu	Cys	Pro	Asn	Ser	Phe	Cys	Lys	Glu	His	Gln	Asp	Gly	Thr	Ala
			260					265					270		
Phe	Ser	Cys	Thr	Pro	Asp	Gly	Arg	Ser	Tyr	Cys	Cys	Glu	His	Asp	Leu
		275					280					285			
Gly	Ala	Ala	Ser	Val	Arg	Ser	Thr	Lys	Thr	Glu	Lys	Pro	Pro	Pro	Glu
	290					295					300				
Pro	Gly	Lys	Pro	Lys	Gly	Lys	Arg	Arg	Arg	Arg	Arg	Gly	Trp	Arg	Arg
305					310				315						320
Val	Thr	Glu	Gly	Lys											
				325											

<210> 409  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (129)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (157)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 409

Met Thr Thr Trp Ser Cys Leu Val Ala Met Ile Val Ser Gly Val Ile  
1 5 10 15

Thr Ala Val Trp Ala Val Arg Ala Ala Pro Ile Trp Arg Ser Gln Val  
20 25 30

Lys Gln Lys Met Arg Ile Gly Lys Gln Gly Asn Cys Arg Pro Pro Arg  
35 40 45

Cys Ile Cys Ser Ala Leu Gly Leu Leu Ala Pro Trp Met Ala Val Val  
50 55 60

Leu Ser Gln Leu Ser Val Arg Cys Val Val Ser Trp Val Gln Gly Lys  
65 70 75 80

Pro Ser Ser Pro Arg Pro Arg Gly Ser Ala Ala Ser Pro Ala Pro Gly  
85 90 95

Ala Thr Pro Pro Thr Pro Arg Lys Pro Val Ser Trp Leu Gly Tyr Arg  
100 105 110

Glu Asn His Arg Pro Lys Lys Pro Lys Ser Xaa Thr Arg Cys Leu Val  
115 120 125

Xaa Gln Asn Trp Ser Leu Pro Pro Ile Ser Lys Asp Arg Thr Ala Gly  
130 135 140

Xaa Xaa Asp Thr Asn Arg Thr Arg Arg Ser Gly Leu Xaa Leu Arg Leu  
145 150 155 160

Gly

<210> 410

<211> 57

<212> PRT

<213> Homo sapiens

<400> 410

Arg Pro Val Ser Thr Lys Lys Lys Lys Val Ser Trp Ala Trp Trp Cys  
1 5 10 15

Thr Ser Ile Ala Pro Ala Thr Leu Glu Ala Lys Val Arg Gly Leu Leu  
20 25 30

Glu Pro Gly Arg Ser Val Ser Ala Val Ser Cys Asp Pro Ala Asn Ala  
35 40 45

Leu Ser Leu Gly Ser Val Arg Pro Cys  
50 55

<210> 411  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 411  
Val Leu Cys Leu Gln Ile Tyr Cys Gln Thr Arg Phe Ser Ser Ser Leu  
1 5 10 15  
Ser Thr Ser Phe Thr Val Leu Asn Cys Met Tyr Arg Ser Val Ile Leu  
20 25 30  
Ser Glu Leu Thr Phe Val Lys Asp Lys Arg Ser Val Leu Asp Arg Tyr  
35 40 45  
Phe Pro Phe Ala Cys Gly Cys Pro Ala Pro  
50 55

<210> 412  
<211> 141  
<212> PRT  
<213> Homo sapiens

<400> 412  
Met Lys Ser Thr Leu Ser Ile Phe Ser Leu Trp Val Met Ile Phe Val  
1 5 10 15  
Leu Cys Leu Gln Ile Tyr Cys Gln Thr Arg Phe Ser Ser Ser Leu Ser  
20 25 30  
Thr Ser Phe Thr Val Leu Asn Cys Met Tyr Arg Ser Val Ile Leu Ser  
35 40 45  
Glu Leu Thr Phe Val Lys Asp Lys Arg Ser Val Leu Asp Arg Leu Phe  
50 55 60  
Phe Leu Leu His Val Val Val Gln His His Glu Asp Ser Ser Phe Ser  
65 70 75 80  
Thr Glu Leu Ser Leu Tyr Phe Cys Gln Arg Ser Asp Leu Pro Leu Lys  
85 90 95  
Ser Leu Ser Asn Leu Ser Thr Ser His His Leu His Phe Gln Ser Leu  
100 105 110  
Arg Thr Arg Gly Arg Thr Arg Gly Ser Thr Arg Glu Phe Arg Thr Gly  
115 120 125  
Thr Cys Arg Arg Thr Ser Phe Pro Tyr Ser Glu Ser Tyr

130

135

140

&lt;210&gt; 413

&lt;211&gt; 141

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 413

Met	Lys	Ser	Thr	Leu	Ser	Ile	Phe	Ser	Leu	Trp	Val	Met	Ile	Phe	Val
1				5					10					15	

Leu	Cys	Leu	Gln	Ile	Tyr	Cys	Gln	Thr	Arg	Phe	Ser	Ser	Ser	Leu	Ser
			20					25					30		

Thr	Ser	Phe	Thr	Val	Leu	Asn	Cys	Met	Tyr	Arg	Ser	Val	Ile	Leu	Ser
		35					40					45			

Glu	Leu	Thr	Phe	Val	Lys	Asp	Lys	Arg	Ser	Val	Leu	Asp	Arg	Leu	Phe
	50					55					60				

Phe	Leu	Leu	His	Val	Val	Val	Gln	His	His	Glu	Asp	Ser	Ser	Phe	Ser
65					70					75					80

Thr	Glu	Leu	Ser	Leu	Tyr	Phe	Cys	Gln	Arg	Ser	Asp	Leu	Pro	Leu	Lys
				85					90					95	

Ser	Leu	Ser	Asn	Leu	Ser	Thr	Ser	His	His	Leu	His	Phe	Gln	Ser	Leu
			100					105					110		

Gln	Ala	Thr	Ile	Leu	Ser	Cys	Leu	Ile	Ile	Ala	Val	Val	Leu	Thr	Gly
		115					120					125			

Leu	Ala	Leu	Ser	Val	Asp	Pro	Cys	Phe	Ile	His	Arg	Ile
	130					135					140	

&lt;210&gt; 414

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 414

Met	Leu	Glu	Thr	Leu	Ser	Gln	Phe	Ile	Ser	Ile	Leu	Phe	Val	Leu	Leu
1				5					10					15	

Trp	Ile	Ile	Ser	Asp	Leu	Ile	Leu	Cys	Phe	Leu	Lys	Cys	Gly	Asn	Pro
			20					25					30		

Gly	Thr	Leu	Asp	Met	Val	Leu	Pro	Ile	Trp	Thr	Asn	Gln	Tyr	Ile	His
		35					40					45			

Ser	Ser	Arg	Ser	Ile	Leu	Ser	Phe	Ile
	50					55		

<210> 415  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 415  
Met Leu Glu Thr Leu Ser Gln Phe Ile Ser Ile Leu Phe Val Leu Leu  
1 5 10 15  
Trp Ile Ile Ser Asp Leu Ile Leu Cys Phe Leu Lys Cys Gly Asn Pro  
20 25 30  
Gly Thr Leu Asp Met Val Leu Pro Ile Trp Thr Asn Gln Tyr Thr His  
35 40 45  
Ser Ser Arg Ser Ile Leu Ser Phe Ile  
50 55

<210> 416  
<211> 85  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 416  
Leu Leu Phe Leu Leu Gly Met Ala Trp Phe Asn Asp Trp Xaa Ala Ala  
1 5 10 15  
Leu Tyr Met Pro Ala Phe Cys Ala Ile Leu Val Ala Leu Phe Ala Phe  
20 25 30  
Ala Met Met Arg Asp Thr Pro Gln Ser Cys Gly Leu Pro Pro Ile Glu  
35 40 45  
Glu Tyr Lys Asn Asp Tyr Pro Asp Asp Tyr Xaa Glu Lys Ala Glu Gln  
50 55 60  
Glu Leu Thr Xaa Lys Gln Pro Gly Gly Arg Arg Leu Trp Leu His Pro  
65 70 75 80



Ala Tyr Thr Ala Ala  
85

<210> 417  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 417

Met	Leu	Phe	Met	Gly	Phe	Val	Pro	Trp	Ala	Thr	Ser	Ser	Ile	Ala	Val
1				5					10					15	
Met	Phe	Val	Leu	Leu	Phe	Leu	Cys	Gly	Trp	Phe	Gln	Gly	Met	Gly	Trp
			20					25					30		
Pro	Pro	Cys	Gly	Arg	Thr	Met	Val	His	Trp	Trp	Ser	Gln	Lys	Glu	Arg
		35					40					45			
Gly	Gly	Ile	Val	Ser	Val	Trp	Asn	Cys	Ala	His	Asn	Val	Gly	Gly	Trp
	50					55					60				
Val	Phe														
65															

<210> 418  
<211> 152  
<212> PRT  
<213> Homo sapiens

<400> 418

Met	Leu	Phe	Met	Gly	Phe	Val	Pro	Trp	Ala	Thr	Ser	Ser	Ile	Ala	Val
1				5					10					15	
Met	Phe	Val	Leu	Leu	Phe	Leu	Cys	Gly	Trp	Phe	Gln	Gly	Met	Gly	Trp
			20					25					30		
Pro	Pro	Cys	Gly	Arg	Thr	Met	Val	His	Trp	Trp	Ser	Gln	Lys	Glu	Arg
		35					40					45			
Gly	Gly	Ile	Val	Ser	Val	Trp	Asn	Cys	Ala	His	Asn	Val	Gly	Gly	Gly
	50					55					60				
Ile	Pro	Pro	Leu	Leu	Phe	Leu	Leu	Gly	Met	Ala	Trp	Phe	Asn	Asp	Trp
65					70				75					80	
His	Ala	Ala	Leu	Tyr	Met	Pro	Ala	Phe	Cys	Ala	Ile	Leu	Val	Ala	Leu
			85						90					95	
Phe	Ala	Phe	Ala	Met	Met	Arg	Asp	Thr	Pro	Gln	Ser	Cys	Gly	Leu	Pro
			100					105					110		
Pro	Ile	Glu	Glu	Tyr	Lys	Asn	Asp	Tyr	Pro	Asp	Asp	Tyr	Asn	Glu	Lys

115		120		125											
Ala	Glu	Gln	Glu	Leu	Thr	Ala	Lys	Gln	Pro	Gly	Gly	Arg	Arg	Leu	Trp
130		135		140											
Leu	His	Pro	Ala	Tyr	Thr	Ala	Ala								
145					150										

<210> 419  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 419
Met Val Met Gly Leu Lys Ala Leu Pro Glu Pro Phe Met Ser Leu Val
1 5 10 15
Ser His Leu Leu Arg Thr Phe Phe Leu Val Trp Phe Val Gly Leu Pro
20 25 30
Val Ala Ile Leu Gly Asn Leu Leu Glu Cys Tyr Ala Asn Val Phe Thr
35 40 45
Gly Asn Gly Gly Gly Pro Glu Pro Trp Gly Gly His Leu Val Ser Glu
50 55 60
Cys Leu Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu Ala Leu Ser Gly
65 70 75 80
Gly Ile Ile Trp Leu
85

<210> 420  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 420
Met Val Met Gly Leu Lys Ala Leu Pro Glu Pro Phe Met Ser Leu Val
1 5 10 15
Ser His Leu Leu Arg Thr Phe Phe Leu Val Trp Phe Val Gly Leu Pro
20 25 30
Val Ala Ile Leu Gly Asn Leu Leu Glu Cys Tyr Ala Asn Val Phe Thr
35 40 45
Gly Asn Gly Gly Gly Pro Glu Pro Trp Gly Gly His Leu Val Ser Glu
50 55 60
Cys Leu Ala Leu Pro Gln Leu Gly Ile Gln Tyr Leu Ala Leu Ser Gly
65 70 75 80

Gly Ile Ile Trp Leu  
85

<210> 421  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 421  
Met Trp Glu Thr Tyr Ile Trp Leu Val Leu Thr Phe Ala Gln Lys Ala  
1 5 10 15  
Cys Cys Met Lys Leu Thr Ala Thr Met Leu Lys Gln Ile His Ile Lys  
20 25 30  
Lys Cys Arg Ser Ile Gln Trp Leu Leu Arg Val Asn Ser Phe Met Glu  
35 40 45  
Ser Ser Met Ser Leu Ser Ser Lys Ile Arg Pro His Gln Arg Arg Asn  
50 55 60

<210> 422  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 422  
Met Trp Glu Thr Tyr Ile Trp Leu Val Leu Thr Phe Ala Gln Lys Ala  
1 5 10 15  
Cys Cys Met Lys Leu Thr Ala Thr Met Leu Lys Gln Ile His Ile Lys  
20 25 30  
Lys Cys Arg Ser Ile Gln Trp Leu Leu Arg Val Asn Ser Phe Met Glu  
35 40 45  
Ser Ser Met Ser Leu Ser Ser Lys Ile Arg Pro His Gln Arg Arg Asn  
50 55 60

<210> 423  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 423

Ser Gln Leu Leu Arg Lys Leu Arg Trp Glu Asp Gly Leu Ser Leu Gly  
1 5 10 15  
Gly Arg Val Cys Ser Glu Pro Arg Leu His His Cys Thr Pro Ala Trp  
20 25 30  
Val Ile Gly Pro Gly Leu Val Leu Thr Thr Thr Thr Glu Lys Lys  
35 40 45

<210> 424  
<211> 54  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 424  
Ile Glu Thr Xaa Arg Phe Gly Gly Lys Gln Met Glu Leu Gln Glu Ile  
1 5 10 15  
Lys Ser Ile Ile Ser Ser Xaa Met Trp Trp Leu Met Pro Leu Ile Leu  
20 25 30  
Val Thr Gln Glu Ala Glu Ala Gly Gly Ser Leu Glu Ala Arg Ser Leu  
35 40 45  
Arg Pro Pro Trp Ala Thr  
50

<210> 425  
<211> 199  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (195)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 425  
Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro  
1 5 10 15  
Thr Arg Pro Ile Tyr Ile Arg Arg Tyr Val Phe Lys Leu Gly Val Leu  
20 25 30





<210> 429  
<211> 80  
<212> PRT  
<213> Homo sapiens

<400> 429  
Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile  
1 5 10 15  
Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val  
20 25 30  
Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe  
35 40 45  
Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu  
50 55 60  
Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu  
65 70 75 80

<210> 430  
<211> 80  
<212> PRT  
<213> Homo sapiens

<400> 430  
Met Ser Leu Ile Trp Arg Asp Val Tyr Leu Tyr Gly Cys Gly Cys Ile  
1 5 10 15  
Cys His Gly Arg Cys Cys Ala Gly Phe Pro Gln His Ser Arg His Val  
20 25 30  
Trp Arg Thr Asn Ala Gly Leu Ile Leu Pro Gly Asn Arg Val Pro Phe  
35 40 45  
Cys Glu Leu Glu Gly Cys Thr Arg Arg Ser Ser Tyr Trp Asn His Leu  
50 55 60  
Val Ile Leu Gly Gly His Trp Gly Leu His Leu Pro Cys Thr Ser Leu  
65 70 75 80

<210> 431  
<211> 107  
<212> PRT  
<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 431  
 Leu Gly Lys Val Gly Asn Xaa Cys Arg Tyr Arg Ser Xaa Ile Pro Gly  
   1                  5                  10                  15  
 Xaa Thr His Ala Ser Gly Leu Glu Ser Thr Phe Glu Leu Pro Glu Glu  
                   20                  25                  30  
 Phe Arg Phe Leu Leu Val Ser Phe Val Phe Gln Thr His Glu Met Ala  
           35                  40                  45  
 Thr Asp Asp Lys Thr Ser Pro Thr Leu Asp Ser Ala Asn Asp Leu Pro  
       50                  55                  60  
 Arg Ser Pro Thr Ser Ser Ser His Leu Thr His Phe Lys Pro Leu Thr  
   65                  70                  75                  80  
 Pro Asp Gln Asp Glu Pro Pro Phe Lys Ser Ala Tyr Ser Ser Phe Val  
                   85                  90                  95  
 Asn Leu Phe Arg Phe Asn Lys Gly Lys Thr Tyr  
           100                  105

<210> 432  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 432  
 Met Cys Cys Arg Ala Ile Ser Gly Cys Cys Gly Thr Cys Leu Ala Cys  
   1                  5                  10                  15  
 Leu Cys Ser Thr Ala Ser Gly Ala Pro Gln Pro Trp Pro Cys Ser Arg  
           20                  25                  30  
 Gln Ser Thr Trp Arg Leu Ile Pro Arg Pro Ser Ala Pro Thr  
       35                  40                  45



<210> 433  
<211> 43  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (35)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 433  
Ser Gly Phe Val Xaa Ala Trp Ser Ile Leu Thr Pro Gly Cys Ile Ser  
1 5 10 15  
Pro Ala Gly Glu Lys Cys Arg Gly Gly Lys Gln Ser Leu Gly Thr Asn  
20 25 30  
Tyr Phe Xaa Xaa Val Leu Leu Ala Thr Asp Ser  
35 40

<210> 434  
<211> 76  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 434  
Met His Leu Pro Leu Ser Thr Lys Gly Ile Leu Pro Arg Ile Leu Leu  
1 5 10 15  
Leu Phe Ile Lys Thr Leu Phe Ala Phe Leu Leu Ser Asp Gln Cys Lys  
20 25 30  
Gly Leu Ala His Leu Trp Leu Arg Arg Arg Glu Cys Gly Pro Gly Gly  
35 40 45  
Leu Thr Cys Ala Ala Glu Glu Leu Lys Ser Tyr Thr Ser Ile Phe Ala  
50 55 60  
Pro Lys Leu Gly Val Val Gly Gly Xaa Glu Met Lys  
65 70 75

<210> 435  
<211> 38  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (14)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (38)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 435  
Pro Ile Ser Thr Lys Asn Arg Lys Ile Ser Arg Xaa Trp Xaa Cys Val  
1 5 10 15  
Pro Val Ile Pro Ala Thr Arg Glu Ala Glu Ala Gly Glu Ser Leu Glu  
20 25 30  
Pro Arg Arg Trp Arg Xaa  
35

<210> 436  
<211> 74  
<212> PRT  
<213> Homo sapiens

<400> 436  
Leu Tyr Gly Lys Ser Lys Thr Glu Val Lys Ile Ser Pro Val Ser Asn  
1 5 10 15  
Leu His Ser Phe Arg Leu Gln Gly Val Ser Leu Tyr Val Glu Ala Gly  
20 25 30  
Ser Leu Val Glu Phe Gln Gly Ser Lys Arg Gly Thr Asn Ile Cys Arg  
35 40 45  
Phe Cys Leu Leu Trp Gly Asn Ser Phe Asn His Gln Glu Asn Ser Ser  
50 55 60  
Ile Gly Phe Ile Cys Ser Gly Leu Pro Arg  
65 70

<210> 437  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 437  
Met Ala Trp Ser Arg Ala Ala Trp Thr Val Met Arg Ser Leu Leu Ile  
1 5 10 15  
Cys Trp Leu Val Ser Ala Tyr Ile Leu Ala Thr Val Thr Asp Val Gln  
20 25 30  
Gly Ser His Ile Gly Ile Pro Gly Ser Leu Leu Glu Leu Arg His His  
35 40 45  
Pro Arg Ser Asn Glu Ser Glu Ser Ala Cys  
50 55

<210> 438  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 438  
Met Ala Trp Ser Arg Ala Ala Trp Thr Val Met Arg Ser Leu Leu Ile  
1 5 10 15  
Cys Trp Leu Val Ser Ala Tyr Ile Leu Ala Thr Val Thr Asp Val Gln  
20 25 30  
Gly Ser His Ile Gly Ile Pro Gly Ser Leu Leu Glu Leu Arg His His  
35 40 45  
Pro Arg Ser Asn Glu Ser Glu Ser Ala Cys  
50 55

<210> 439  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 439  
Trp Arg Arg Gln Ala Arg Val Glu Ser Leu Leu Pro Met Leu  
1 5 10

<210> 440  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 440

Met Trp Asp Leu Ser Pro Ser Thr Leu Ser Leu Leu Leu Leu Ser  
1 5 10 15

Pro Cys Asp Val Pro Ala Leu Ala Leu Pro Ser Ala Met Ser Lys Ser  
20 25 30

Leu Leu Ser Leu Leu Arg Ser Arg Cys Cys His Ala Ser Trp Thr Ala  
35 40 45

Cys Arg Thr Val Asn Gln Leu Asn Leu Phe Ser Leu  
50 55 60

<210> 441

<211> 6

<212> PRT

<213> Homo sapiens

<400> 441

Pro Cys Asp Val His Phe  
1 5

<210> 442

<211> 60

<212> PRT

<213> Homo sapiens

<400> 442

Met Trp Asp Leu Ser Pro Ser Thr Leu Ser Leu Leu Leu Leu Ser  
1 5 10 15

Pro Cys Asp Val Pro Ala Leu Ala Leu Pro Ser Ala Met Ser Lys Ser  
20 25 30

Leu Leu Ser Leu Leu Arg Ser Arg Cys Cys His Ala Ser Trp Thr Ala  
35 40 45

Cys Arg Thr Val Asn Gln Leu Asn Leu Phe Ser Leu  
50 55 60

<210> 443

<211> 52

<212> PRT

<213> Homo sapiens

<400> 443

Met Val Glu His Leu His Leu Thr Tyr His Tyr Leu Lys Leu Pro Cys  
1 5 10 15

Ile Phe Ala Cys Leu Leu Leu Tyr Trp Phe Ser Pro Leu Leu Asn Ser  
20 25 30

Lys Leu Gln Asp Ser Arg Asp Leu Val Cys Phe Leu Asn Gln Trp His  
35 40 45

Thr Val Cys Ala  
50

<210> 444  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 444  
Pro Cys Cys Phe Leu Cys Leu Val  
1 5

<210> 445  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 445  
Pro Cys Cys Phe Leu Cys Leu Val Cys Ser Ser Ser Asp Ser His Lys  
1 5 10 15

Ala Ser Ser Ser Ser Ser Pro Thr Leu Ser Thr Pro Leu Pro Cys Leu  
20 25 30

Phe Ser Ser His Thr Ser Leu Leu Arg Asn Phe His Ile Ala Ser Leu  
35 40 45

Leu Leu Thr Pro Pro Gln Ala Pro Gln Gly Trp Ala Phe Pro Ala Ser  
50 55 60

Leu Thr Ala Ala Ala Leu Val Pro Gly Pro Val Pro Gly Thr Gln Leu  
65 70 75 80

Val Ala Arg Met Leu Ile Thr  
85

<210> 446  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 446  
Met Val Glu His Leu His Leu Thr Tyr His Tyr Leu Lys Leu Pro Cys  
1 5 10 15

Ile Phe Ala Cys Leu Leu Leu Tyr Trp Phe Ser Pro Leu Leu Asn Ser  
20 25 30

Lys Leu Gln Asp Ser Arg Asp Leu Val Cys Phe Leu Asn Gln Trp His  
35 40 45

Thr Val Cys Ala  
50

<210> 447  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 447  
Met Pro Leu Ser Arg Phe Trp Leu Leu Leu Leu Phe Leu Pro Ser His  
1 5 10 15

Ile Ser Val Leu Ser Leu Ile Arg Tyr Pro Ser Val Lys Glu Tyr  
20 25 30

<210> 448  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 448  
Met Pro Leu Ser Arg Phe Trp Leu Leu Leu Leu Phe Leu Pro Ser His  
1 5 10 15

Ile Ser Val Leu Ser Leu Ile Arg Tyr Pro Ser Val Lys Glu Tyr  
20 25 30

<210> 449  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 449  
Val Gly Ala Ser Thr Ala His Gly Leu Leu Leu Pro Leu Leu His Ile  
1 5 10 15

His Gly Gly Ser Ala Asn Ser Ser Ala Pro His His Pro Asn Pro Trp  
20 25 30

Pro Gln Ala Asp Arg Ala Trp Ser His Tyr Leu  
35 40

<210> 450  
<211> 43  
<212> PRT

<213> Homo sapiens

<400> 450

Val Gly Ala Ser Thr Ala His Gly Leu Leu Leu Pro Leu Leu His Ile  
1 5 10 15

His Gly Gly Ser Ala Asn Ser Ser Ala Pro His His Pro Asn Pro Trp  
20 25 30

Pro Gln Ala Asp Arg Ala Trp Ser His Tyr Leu  
35 40

<210> 451

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 451

Gln Phe Lys Gln Tyr Arg Tyr Ala Xaa Gly Met Leu Arg Gly Pro His  
1 5 10 15

Ile Pro Val Ser Tyr Pro Asn Met Tyr Phe  
20 25

<210> 452

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 452

Met His Phe Ala Ala Pro Phe Gln Leu Gln Ser Gln Thr Phe Arg Tyr  
1 5 10 15

Glu Val Gly Ser Val Arg Lys Ser Gln Gln Val Leu Lys Ala Val Val  
20 25 30

Thr Ala Leu Leu Ile Pro Ala Phe Ser Ser Leu Ser Ser Lys Ala Cys  
35 40 45

Lys Ala Ser Phe Gly Lys Lys Lys Lys Xaa Lys Gly Lys Xaa  
50 55 60

<210> 453  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 453  
Glu Gln Leu Leu Glu Ser Ser Leu Ser Ser Thr Ser Cys Glu Thr Leu  
1 5 10 15  
Ser Ser Tyr Ala Ser Gly Arg Trp Leu Leu Ser Pro His Thr Pro Ala  
20 25 30  
Cys Arg Val Arg Xaa Tyr Ile Xaa Gly Thr Asp Arg Met Trp Xaa Pro  
35 40 45  
Arg Ser Met Pro Ser Ala Thr Asp Ile Ala  
50 55

<210> 454  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 454  
Met Ser Ala Thr His Pro Val Pro Trp Ser Val Thr Thr Trp Cys Phe  
1 5 10 15  
Phe Cys Thr Trp Asn Ala Thr Cys Ser Ala Gly Pro Ser Pro Gly His  
20 25 30  
Arg Val Ser Ser Ser Thr Ala Ser Phe Ile Arg Val Ser Tyr Phe Pro  
35 40 45  
Ser Tyr Phe Ser Ser Pro Leu Ser Val Thr Cys Val Pro Val Ser Ser



50

55

60

&lt;210&gt; 455

&lt;211&gt; 318

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 455

Glu	Ala	Lys	Ala	Gln	Phe	Trp	Leu	Leu	His	Ser	Tyr	Leu	Phe	Cys	His
1				5					10					15	

Ser	Ser	Asn	Val	Pro	Asp	Leu	Leu	Arg	Pro	Arg	Met	Thr	Asn	Asp	Ser
			20					25					30		

Glu	Gly	Lys	Met	Gly	Phe	Lys	His	Pro	Lys	Ile	Met	Gly	Asn	Phe	Arg
		35					40					45			

Gly	His	Ala	Leu	Pro	Gly	Thr	Phe	Phe	Phe	Ile	Ile	Gly	Leu	Trp	Trp
	50					55					60				

Cys	Thr	Lys	Ser	Ile	Leu	Lys	Tyr	Ile	Cys	Lys	Lys	Gln	Lys	Arg	Thr
65					70					75					80

Cys	Tyr	Leu	Gly	Ser	Lys	Thr	Leu	Phe	Tyr	Arg	Leu	Glu	Ile	Leu	Glu
				85					90					95	

Gly	Ile	Thr	Ile	Val	Gly	Met	Ala	Leu	Thr	Gly	Met	Ala	Gly	Glu	Gln
			100					105					110		

Phe	Ile	Pro	Gly	Gly	Pro	His	Leu	Met	Leu	Tyr	Asp	Tyr	Lys	Gln	Gly
		115					120					125			

His	Trp	Asn	Gln	Leu	Leu	Gly	Trp	His	His	Phe	Thr	Met	Tyr	Phe	Phe
	130					135					140				

Phe	Gly	Leu	Leu	Gly	Val	Ala	Asp	Ile	Leu	Cys	Phe	Thr	Ile	Ser	Ser
145					150					155					160

Leu	Pro	Val	Ser	Leu	Thr	Lys	Leu	Met	Leu	Ser	Asn	Ala	Leu	Phe	Val
				165					170					175	

Glu	Ala	Phe	Ile	Phe	Tyr	Asn	His	Thr	His	Gly	Arg	Glu	Met	Leu	Asp
			180					185					190		

Ile	Phe	Val	His	Gln	Leu	Leu	Val	Leu	Val	Val	Phe	Leu	Thr	Gly	Leu
		195					200					205			

Val	Ala	Phe	Leu	Glu	Phe	Leu	Val	Arg	Asn	Asn	Val	Leu	Leu	Glu	Leu
	210					215					220				

Leu	Arg	Ser	Ser	Leu	Ile	Leu	Leu	Gln	Gly	Ser	Trp	Phe	Phe	Gln	Ile
225					230					235					240

Gly Phe Val Leu Tyr Pro Pro Ser Gly Gly Pro Ala Trp Asp Leu Met  
245 250 255

Asp His Glu Asn Ile Leu Phe Leu Thr Ile Cys Phe Cys Trp His Tyr  
260 265 270

Ala Val Thr Ile Val Ile Val Gly Met Asn Tyr Ala Phe Ile Thr Trp  
275 280 285

Leu Val Lys Ser Arg Leu Lys Arg Leu Cys Ser Ser Glu Val Gly Leu  
290 295 300

Leu Lys Asn Ala Glu Arg Glu Gln Glu Ser Glu Glu Glu Met  
305 310 315

<210> 456  
<211> 24  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 456  
Leu Xaa Lys Leu Lys Met Phe Tyr Lys Phe Ala Phe Lys Phe Ser Tyr  
1 5 10 15

Glu Ala Ile Cys Lys Leu His Thr  
20

<210> 457  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 457  
Met Val Ser Ile Leu Tyr Leu Gly Leu Phe Phe Leu Asn Ser Ser Val  
1 5 10 15

Leu Tyr Ala

<210> 458  
<211> 282  
<212> PRT  
<213> Homo sapiens

<400> 458

Val	Asn	Arg	Pro	Ser	Trp	Ile	Met	Gly	Asn	Phe	Arg	Gly	His	Ala	Leu			
1				5					10					15				
Pro	Gly	Thr	Phe	Phe	Phe	Ile	Ile	Gly	Leu	Trp	Trp	Cys	Thr	Lys	Ser			
			20					25					30					
Ile	Leu	Lys	Tyr	Ile	Cys	Lys	Lys	Gln	Lys	Arg	Thr	Cys	Tyr	Leu	Gly			
		35					40					45						
Ser	Lys	Thr	Leu	Phe	Tyr	Arg	Leu	Glu	Ile	Leu	Glu	Gly	Ile	Thr	Ile			
	50					55					60							
Val	Gly	Met	Ala	Leu	Thr	Gly	Met	Ala	Gly	Glu	Gln	Phe	Ile	Pro	Gly			
65					70					75					80			
Gly	Pro	His	Leu	Met	Leu	Tyr	Asp	Tyr	Lys	Gln	Gly	His	Trp	Asn	Gln			
				85					90					95				
Leu	Leu	Gly	Trp	His	His	Phe	Thr	Met	Tyr	Phe	Phe	Phe	Gly	Leu	Leu			
			100					105					110					
Gly	Val	Ala	Asp	Ile	Leu	Cys	Phe	Thr	Ile	Ser	Ser	Leu	Pro	Val	Ser			
		115					120					125						
Leu	Thr	Lys	Leu	Met	Leu	Ser	Asn	Ala	Leu	Phe	Val	Glu	Ala	Phe	Ile			
	130					135					140							
Phe	Tyr	Asn	His	Thr	His	Gly	Arg	Glu	Met	Leu	Asp	Ile	Phe	Val	His			
145					150					155					160			
Gln	Leu	Leu	Val	Leu	Val	Val	Phe	Leu	Thr	Gly	Leu	Val	Ala	Phe	Leu			
				165					170					175				
Glu	Phe	Leu	Val	Arg	Asn	Asn	Val	Leu	Leu	Glu	Leu	Leu	Arg	Ser	Ser			
			180					185					190					
Leu	Ile	Leu	Leu	Gln	Gly	Ser	Trp	Phe	Phe	Gln	Ile	Gly	Phe	Val	Leu			
		195					200					205						
Tyr	Pro	Pro	Ser	Gly	Gly	Pro	Ala	Trp	Asp	Leu	Met	Asp	His	Glu	Asn			
	210					215					220							
Ile	Leu	Phe	Leu	Thr	Ile	Cys	Phe	Cys	Trp	His	Tyr	Ala	Val	Thr	Ile			
225					230					235					240			
Val	Ile	Val	Gly	Met	Asn	Tyr	Ala	Phe	Ile	Thr	Trp	Leu	Val	Lys	Ser			
				245					250					255				
Arg	Leu	Lys	Arg	Leu	Cys	Ser	Ser	Glu	Val	Gly	Leu	Leu	Lys	Asn	Ala			
			260					265					270					
Glu	Arg	Glu	Gln	Glu	Ser	Glu	Glu	Glu	Met									
		275					280											

<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 459  
Met Val Ser Ile Leu Tyr Leu Gly Leu Phe Phe Leu Asn Ser Ser Val  
1 5 10 15  
  
Leu Tyr Ala

<210> 460  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 460  
Met Arg Val Gln Glu Leu Leu Leu Phe Leu Val Gly Gly Gly Val Thr  
1 5 10 15  
  
Glu Gly Cys Thr Glu Glu Val Thr Pro Leu Cys Leu Phe Leu Ala Asn  
20 25 30  
  
Asn Glu Val Leu Arg Thr Leu Thr Cys Arg Gln Ser Leu Ala Gln  
35 40 45

<210> 461  
<211> 136  
<212> PRT  
<213> Homo sapiens

<400> 461  
Ser Ala Gln Ala Leu His His Pro Pro His Gln Gly Pro Pro Leu Phe  
1 5 10 15  
  
Pro Ser Ser Ala His Pro Thr Val Pro Pro Tyr Pro Ser Gln Ala Thr  
20 25 30  
  
His His Thr Thr Leu Gly Pro Gly Pro Gln His Gln Pro Ser Gly Thr  
35 40 45  
  
Gly Pro His Cys Pro Leu Pro Val Thr Gly Pro His Leu Gln Pro Gln  
50 55 60  
  
Gly Pro Asn Ser Ile Pro Thr Pro Thr Ala Ser Gly Phe Cys Pro His  
65 70 75 80  
  
Pro Gly Ser Val Ala Leu Pro Trp Gly Phe Lys Asp Leu Ser Arg His  
85 90 95  
  
Leu Gln Cys Leu Asp Arg Phe Gln Phe Thr Glu His Arg Cys His Gln  
100 105 110

His Phe Lys Thr Ile Thr Met Gly Gln Gly Gly Ile Lys Met Asp Ser  
115 120 125

Lys Asn Ile Phe Leu Asn Val Leu  
130 135

<210> 462  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 462  
Met Ala Val Phe Leu Ile Ser Ser Ser Tyr Phe Leu Leu Cys Val Phe  
1 5 10 15

Thr Ile Arg Ser Leu Arg Ala Trp Val Leu Pro Phe Thr Ser Val Pro  
20 25 30

Arg Ala Gln Gly Gly Ser Cys Cys Arg Ser Gln Trp Leu Tyr Lys Thr  
35 40 45

Leu Pro Pro Xaa Leu Val Cys Lys Pro Val  
50 55

<210> 463  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 463  
Met Ala Val Phe Leu Ile Ser Ser Ser Tyr Phe Leu Leu Cys Val Phe  
1 5 10 15

Thr Ile Arg Ser Leu Arg Ala Trp Val Leu Pro Phe Thr Ser Val Pro  
20 25 30

Arg Ala Gln Gly Gly Ser Cys Cys Arg Ser Gln Trp Leu Tyr Lys Thr  
35 40 45

Leu Pro Pro Cys Leu Val Cys Lys Pro Val  
50 55

<210> 464  
<211> 58  
<212> PRT  
<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 464  
 Met Ala Val Phe Leu Ile Ser Ser Ser Tyr Phe Leu Leu Cys Val Phe  
   1                  5                  10                  15  
 Thr Ile Arg Ser Leu Arg Ala Trp Val Leu Pro Phe Thr Ser Val Pro  
                   20                  25                  30  
 Arg Ala Gln Gly Gly Ser Cys Cys Arg Ser Gln Trp Leu Tyr Lys Thr  
                   35                  40                  45  
 Leu Pro Pro Xaa Leu Val Cys Lys Pro Val  
           50                  55

<210> 465  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 465  
 Ser Arg Cys Ala Gly Ala Pro Leu Gln Asn Asn Gly Pro Val Arg Glu  
   1                  5                  10                  15  
 Ala Thr Xaa Leu Thr Leu Gln Asn Xaa Gly Pro Xaa Arg Glu Ala Thr  
                   20                  25                  30  
 His Leu Thr Leu Gln Asn Asn Gly Pro Met Arg Glu Ala Xaa His Leu  
                   35                  40                  45  
 Val Leu His Lys Trp Ser Ile Cys Leu Arg

50

55

<210> 466  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 466  
 Met Pro Tyr Gly Pro Asp Pro Ile Leu Ser Asn Val Leu Leu Ala Gly  
 1 5 10 15  
 Tyr Ile Val Leu Gln Thr Leu Ser Cys Pro Arg  
 20 25

<210> 467  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 467  
 Met Val Thr Val Gly Leu Val Ile Cys Phe Ser Glu Trp Cys Cys Ala  
 1 5 10 15  
 Gly Gly Leu Ser Ala Glu Gln Thr Val Ser Asp Lys His Ile Asp Ala  
 20 25 30  
 Leu Met Lys Glu Lys Glu Ala Gly Lys Ser Ser Gly His Tyr Asp Pro  
 35 40 45  
 Arg His Gln Gly Gln Ala Leu Glu Glu Pro Ser Val His Ser Cys Ile  
 50 55 60  
 Tyr Tyr Leu Leu Thr Glu Gln Thr Gln Lys Val Ser Thr Arg Thr Ser  
 65 70 75 80  
 Leu Leu Arg Tyr Arg Trp Pro Cys Glu Glu Val Gly Trp Cys Trp Gly  
 85 90 95  
 Leu Asp Leu Thr Gly Cys Pro Val Val Ile Gln His Glu Gly Val Ala  
 100 105 110  
 Gly Ser Glu Ile Ile Ile Ser Asp Tyr Pro Leu Thr Asn Glu Asn Ile  
 115 120 125  
 Lys Gly Ile Pro Glu Ile Cys Leu Phe His Ile  
 130 135

<210> 468  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 468

Met Leu Ala Ile Lys Val Leu Ile Val Val Phe Leu Leu Gln Leu Ser  
1 5 10 15

Trp Cys Phe Leu Leu Val Leu Leu Phe His Ser Leu Ile Lys Gly Thr  
20 25 30

Met Ile Asp Ile Pro Ala Pro Tyr Lys Glu Ile  
35 40

<210> 469

<211> 38

<212> PRT

<213> Homo sapiens

<400> 469

Cys Phe Leu Leu Ala Asp Val Gly Asn Ser Ile Ile Phe Ile Thr Asn  
1 5 10 15

Phe Met Glu Gln His Gln Phe Arg Val Lys Leu Glu Asn Gln Cys Ile  
20 25 30

Leu Ile Phe Val Asp Tyr  
35

<210> 470

<211> 4

<212> PRT

<213> Homo sapiens

<400> 470

Val Gly Phe Leu  
1

<210> 471

<211> 77

<212> PRT

<213> Homo sapiens

<400> 471

Ala Pro Arg Arg Gln Ala Gln Glu Trp Leu Gly Arg Thr Gly Asn Thr  
1 5 10 15

Phe Ala Pro Arg Leu Ala Val Thr Ser Val Lys Ala Asp Arg Arg Glu  
20 25 30

Met Gly Pro Ser Ser Ser Val Val Ala Ala Ser Pro Ser Leu Gln Asp  
35 40 45

Arg Val Ile Ile Thr Ile Asn Asn Pro Ser Arg Val Lys Lys Lys Lys



50		55		60
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys				
65		70		75

<210> 472  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 472  
 Ala Trp Arg Arg Arg Arg Ser Gly Thr Ser Gly Lys Ala Thr Trp Trp  
 1 5 10 15  
 Cys Ser Gly Leu Arg Arg Ala Ser Pro Thr Pro Ser Arg Arg Val Gln  
 20 25 30  
 Ser Trp Ala Thr Ala Val Met Trp Lys Pro Ser Pro Ser Ser Ser Pro  
 35 40 45  
 Ala Ser Trp Ser Cys Thr Ala Leu Arg Ala Pro Gln Ser Cys Leu Arg  
 50 55 60  
 Ala Ala Thr Val Arg Pro Val Thr Leu Gln Ala Arg Ala Asp Ser Pro  
 65 70 75 80  
 Thr Val Pro Glu Pro Val His Arg Pro Gln Asp Pro Trp His Ile Pro  
 85 90 95  
 Gly Val Pro Glu Pro Val His Arg Pro Gln Asp Pro Trp His Ile Pro  
 100 105 110  
 Gly Val Pro Glu Pro Val His Arg Pro Gln Asp Pro Trp His Ile Pro  
 115 120 125  
 Gly Val Pro Glu Pro Val His Arg Pro Gln Asp Pro Trp Pro Trp Leu  
 130 135 140  
 Gln Leu Val Pro Pro Ala Glu Leu Ala Tyr Cys Leu Leu Met Leu Leu  
 145 150 155 160  
 Leu Ala His Cys Met Lys Gln Gln Ala Arg Pro Gly His Pro Asp Phe  
 165 170 175  
 Leu His Arg Glu Ala Trp Ala Cys Leu Ser Ala Ala Gly Gly Leu Ala  
 180 185 190  
 Ser Pro Gly Leu Leu Leu Trp Ala Thr Ala Arg Pro Arg Ala Ser Gly  
 195 200 205  
 Glu Ala Gly Pro Gly Arg Ala Leu Val Gly Ala Asp Ala Ala Cys Cys  
 210 215 220  
 Pro Arg His Ser Val Leu Ser Leu Val Asp Ile Pro Ser Gly Gln Val  
 225 230 235 240

Leu Pro Gln Gly Gln  
245

<210> 473  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 473  
Met Ala Ala Arg Gly Arg Ser Gly Val Gly Pro Pro Gly Phe Leu Arg  
1 5 10 15  
Ala Leu Ala Leu Leu Gln Leu Ser Cys Gly Phe Tyr Trp Ala Cys Ser  
20 25 30  
Arg Gly Trp Met Val Arg Gly Thr Pro His Pro  
35 40

<210> 474  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 474  
Met Ala Ala Arg Gly Arg Ser Gly Val Gly Pro Pro Gly Phe Leu Arg  
1 5 10 15  
Ala Leu Ala Leu Leu Gln Leu Ser Cys Gly Phe Tyr Trp Ala Cys Ser  
20 25 30  
Arg Gly Trp Met Val Arg Gly Thr Pro His Pro  
35 40

<210> 475  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 475  
Met Phe Asn Leu Ser Phe Phe Thr Leu Tyr Gly Leu Cys Met Leu Lys  
1 5 10 15  
Leu His Ser Ala Ser Ser Trp Phe Thr Leu Leu Leu Leu Ile Ser Leu  
20 25 30  
Phe Leu Ser Val Val Tyr Cys Gln Ser Thr Asn  
35 40

<210> 476  
<211> 2  
<212> PRT  
<213> Homo sapiens

<400> 476  
Leu His  
1

<210> 477  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 477  
Met Phe Asn Leu Ser Phe Phe Thr Leu Tyr Gly Leu Cys Met Leu Lys  
1 5 10 15  
Leu His Ser Ala Ser Ser Trp Phe Thr Leu Leu Leu Leu Ile Ser Leu  
20 25 30  
Phe Leu Ser Val Val Tyr Cys Gln Ser Thr Asn  
35 40

<210> 478  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 478  
Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala  
1 5 10 15  
Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn  
20 25 30  
Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly  
35 40 45

<210> 479  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 479  
Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Leu Ala Ala  
1 5 10 15  
Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn  
20 25 30

Arg	Leu	Ser	Gly	Leu	Thr	Arg	Ala	Arg	Val	Glu	Thr	Cys	Gly	Gly
		35					40					45		

<210> 480  
 <211> 365  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (313)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (316)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (333)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (335)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (338)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (339)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (352)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (355)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 480															
Met	Leu	Ser	Gly	Val	Trp	Phe	Leu	Ser	Val	Leu	Thr	Val	Ala	Gly	Ile
1				5					10					15	

Leu	Gln	Thr	Glu	Ser	Arg	Lys	Thr	Ala	Lys	Asp	Ile	Cys	Lys	Ile	Arg
			20					25					30		

Cys	Leu	Cys	Glu	Glu	Lys	Glu	Asn	Val	Leu	Asn	Ile	Asn	Cys	Glu	Asn	35	40	45	
Lys	Gly	Phe	Thr	Thr	Val	Ser	Leu	Leu	Gln	Pro	Pro	Gln	Tyr	Arg	Ile	50	55	60	
Tyr	Gln	Leu	Phe	Leu	Asn	Gly	Asn	Leu	Leu	Thr	Arg	Leu	Tyr	Pro	Asn	65	70	75	80
Glu	Phe	Val	Asn	Tyr	Ser	Asn	Ala	Val	Thr	Leu	His	Leu	Gly	Asn	Asn	85	90	95	
Gly	Leu	Gln	Glu	Ile	Arg	Thr	Gly	Ala	Phe	Ser	Gly	Leu	Lys	Thr	Leu	100	105	110	
Lys	Arg	Leu	His	Leu	Asn	Asn	Asn	Lys	Leu	Glu	Ile	Leu	Arg	Glu	Asp	115	120	125	
Thr	Phe	Leu	Gly	Leu	Glu	Ser	Leu	Glu	Tyr	Leu	Gln	Ala	Asp	Tyr	Asn	130	135	140	
Tyr	Ile	Ser	Ala	Ile	Glu	Ala	Gly	Ala	Phe	Ser	Lys	Leu	Asn	Lys	Leu	145	150	155	160
Lys	Val	Leu	Ile	Leu	Asn	Asp	Asn	Leu	Leu	Leu	Ser	Leu	Pro	Ser	Asn	165	170	175	
Val	Phe	Arg	Phe	Val	Leu	Leu	Thr	His	Leu	Asp	Leu	Arg	Gly	Asn	Arg	180	185	190	
Leu	Lys	Val	Met	Pro	Phe	Ala	Gly	Val	Leu	Glu	His	Ile	Gly	Gly	Ile	195	200	205	
Met	Glu	Ile	Gln	Leu	Glu	Glu	Asn	Pro	Trp	Asn	Cys	Thr	Cys	Asp	Leu	210	215	220	
Leu	Pro	Leu	Lys	Ala	Trp	Leu	Asp	Thr	Ile	Thr	Val	Phe	Val	Gly	Glu	225	230	235	240
Ile	Val	Cys	Glu	Thr	Pro	Phe	Arg	Leu	His	Gly	Lys	Asp	Val	Thr	Gln	245	250	255	
Leu	Thr	Arg	Gln	Asp	Leu	Cys	Pro	Arg	Lys	Ser	Ala	Ser	Asp	Ser	Ser	260	265	270	
Gln	Arg	Gly	Ser	His	Ala	Asp	Thr	His	Val	Gln	Arg	Leu	Ser	Pro	Thr	275	280	285	
Met	Asn	Pro	Ala	Leu	Asn	Pro	Thr	Arg	Ala	Pro	Lys	Ala	Ser	Arg	Pro	290	295	300	
Pro	Lys	Met	Arg	Asn	Arg	Pro	Thr	Xaa	Arg	Val	Xaa	Val	Ser	Lys	Asp	305	310	315	320
Arg	Gln	Ser	Phe	Gly	Pro	Ile	Met	Val	Tyr	Gln	Thr	Xaa	Val	Xaa	Cys	325	330	335	

Ala Xaa Xaa Leu Ser Gln Gln Leu Cys Leu His Leu Ser Glu Leu Xaa  
340 345 350

Gln Trp Xaa Glu Cys Lys Leu Pro Arg Lys Glu Val His  
355 360 365

<210> 481  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 481  
Gly Tyr Trp Val Ser Phe Leu Leu His Val Asp Gly Val Leu Ala His  
1 5 10 15

Leu Thr Thr Gly Gly Gly Ile  
20

<210> 482  
<211> 191  
<212> PRT  
<213> Homo sapiens

<400> 482  
Met Leu Ser Gly Val Trp Phe Leu Ser Val Leu Thr Val Ala Gly Ile  
1 5 10 15

Leu Gln Thr Glu Ser Arg Lys Thr Ala Lys Asp Ile Cys Lys Ile Arg  
20 25 30

Cys Leu Cys Glu Glu Lys Glu Asn Val Leu Asn Ile Asn Cys Glu Asn  
35 40 45

Lys Gly Phe Thr Thr Val Ser Leu Leu Gln Pro Pro Gln Tyr Arg Ile  
50 55 60

Tyr Gln Leu Phe Leu Asn Gly Asn Leu Leu Thr Arg Leu Tyr Pro Asn  
65 70 75 80

Glu Phe Val Asn Tyr Ser Asn Ala Val Thr Leu His Leu Gly Asn Asn  
85 90 95

Gly Leu Gln Glu Ile Arg Thr Gly Ala Phe Ser Gly Leu Lys Thr Leu  
100 105 110

Lys Arg Leu His Leu Asn Asn Asn Lys Leu Glu Ile Leu Arg Glu Asp  
115 120 125

Thr Phe Leu Gly Leu Glu Ser Leu Glu Tyr Leu Gln Ala Asp Tyr Asn  
130 135 140

Tyr Ile Ser Ala Ile Glu Ala Gly Ala Phe Ser Lys Leu Asn Lys Leu  
145 150 155 160

Lys Val Leu Ile Leu Asn Asp Asn Leu Leu Leu Ser Leu Pro Ser Asn  
165 170 175

Val Phe Arg Phe Val Leu Leu Thr His Leu Asp Leu Arg Gly Asn  
180 185 190

<210> 483

<211> 845

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (477)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 483

Met Leu Ser Gly Val Trp Phe Leu Ser Val Leu Thr Val Ala Gly Ile  
1 5 10 15

Leu Gln Thr Glu Ser Arg Lys Thr Ala Lys Asp Ile Cys Lys Ile Arg  
20 25 30

Cys Leu Cys Glu Glu Lys Glu Asn Val Leu Asn Ile Asn Cys Glu Asn  
35 40 45

Lys Gly Phe Thr Thr Val Ser Leu Leu Gln Pro Pro Gln Tyr Arg Ile  
50 55 60

Tyr Gln Leu Phe Leu Asn Gly Asn Leu Leu Thr Arg Leu Tyr Pro Asn  
65 70 75 80

Glu Phe Val Asn Tyr Ser Asn Ala Val Thr Leu His Leu Gly Asn Asn  
85 90 95

Gly Leu Gln Glu Ile Arg Thr Gly Ala Phe Ser Gly Leu Lys Thr Leu  
100 105 110

Lys Arg Leu His Leu Asn Asn Asn Lys Leu Glu Ile Leu Arg Glu Asp  
115 120 125

Thr Phe Leu Gly Leu Glu Ser Leu Glu Tyr Leu Gln Ala Asp Tyr Asn  
130 135 140

Tyr Ile Ser Ala Ile Glu Ala Gly Ala Phe Ser Lys Leu Asn Lys Leu  
145 150 155 160

Lys Val Leu Ile Leu Asn Asp Asn Leu Leu Leu Ser Leu Pro Ser Asn  
165 170 175

Val Phe Arg Phe Val Leu Leu Thr His Leu Asp Leu Arg Gly Asn Arg  
180 185 190

Leu Lys Val Met Pro Phe Ala Gly Val Leu Glu His Ile Gly Gly Ile

195					200					205					
Met	Glu	Ile	Gln	Leu	Glu	Glu	Asn	Pro	Trp	Asn	Cys	Thr	Cys	Asp	Leu
	210					215					220				
Leu	Pro	Leu	Lys	Ala	Trp	Leu	Asp	Thr	Ile	Thr	Val	Phe	Val	Gly	Glu
225					230					235					240
Ile	Val	Cys	Glu	Thr	Pro	Phe	Arg	Leu	His	Gly	Lys	Asp	Val	Thr	Gln
				245					250					255	
Leu	Thr	Arg	Gln	Asp	Leu	Cys	Pro	Arg	Lys	Ser	Ala	Ser	Asp	Ser	Ser
			260				265						270		
Gln	Arg	Gly	Ser	His	Ala	Asp	Thr	His	Val	Gln	Arg	Leu	Ser	Pro	Thr
		275					280					285			
Met	Asn	Pro	Ala	Leu	Asn	Pro	Thr	Arg	Ala	Pro	Lys	Ala	Ser	Arg	Pro
	290					295					300				
Pro	Lys	Met	Arg	Asn	Arg	Pro	Thr	Pro	Arg	Val	Thr	Val	Ser	Lys	Asp
305					310					315					320
Arg	Gln	Ser	Phe	Gly	Pro	Ile	Met	Val	Tyr	Gln	Thr	Lys	Ser	Pro	Val
				325					330					335	
Pro	Leu	Thr	Cys	Pro	Ser	Ser	Cys	Val	Cys	Thr	Ser	Gln	Ser	Ser	Asp
			340					345					350		
Asn	Gly	Leu	Asn	Val	Asn	Cys	Gln	Glu	Arg	Lys	Phe	Thr	Asn	Ile	Ser
		355					360					365			
Asp	Leu	Gln	Pro	Lys	Pro	Thr	Ser	Pro	Lys	Lys	Leu	Tyr	Leu	Thr	Gly
	370					375					380				
Asn	Tyr	Leu	Gln	Thr	Val	Tyr	Lys	Asn	Asp	Leu	Leu	Glu	Tyr	Ser	Ser
385					390					395					400
Leu	Asp	Leu	Leu	His	Leu	Gly	Asn	Asn	Arg	Ile	Ala	Val	Ile	Gln	Glu
				405					410					415	
Gly	Ala	Phe	Thr	Asn	Leu	Thr	Ser	Leu	Arg	Arg	Leu	Tyr	Leu	Asn	Gly
			420					425					430		
Asn	Tyr	Leu	Glu	Val	Leu	Tyr	Pro	Ser	Met	Phe	Asp	Gly	Leu	Gln	Ser
		435					440					445			
Leu	Gln	Tyr	Leu	Tyr	Leu	Glu	Tyr	Asn	Val	Ile	Lys	Glu	Ile	Lys	Pro
	450					455					460				
Leu	Thr	Phe	Asp	Ala	Leu	Ile	Asn	Leu	Gln	Leu	Leu	Xaa	Leu	Asn	Asn
465					470					475					480
Asn	Leu	Leu	Arg	Ser	Leu	Pro	Asp	Asn	Ile	Phe	Gly	Gly	Thr	Ala	Leu
			485						490					495	
Thr	Arg	Leu	Asn	Leu	Arg	Asn	Asn	His	Phe	Ser	His	Leu	Pro	Val	Lys



500					505					510					
Gly	Val	Leu	Asp	Gln	Leu	Pro	Ala	Phe	Ile	Gln	Ile	Asp	Leu	Gln	Glu
	515						520					525			
Asn	Pro	Trp	Asp	Cys	Thr	Cys	Asp	Ile	Met	Gly	Leu	Lys	Asp	Trp	Thr
	530					535					540				
Glu	His	Ala	Asn	Ser	Pro	Val	Ile	Ile	Asn	Glu	Val	Thr	Cys	Glu	Ser
545					550					555					560
Pro	Ala	Lys	His	Ala	Gly	Glu	Ile	Leu	Lys	Phe	Leu	Gly	Arg	Glu	Ala
				565					570					575	
Ile	Cys	Pro	Asp	Ser	Pro	Asn	Leu	Ser	Asp	Gly	Thr	Val	Leu	Ser	Met
			580					585					590		
Asn	His	Asn	Thr	Asp	Thr	Pro	Arg	Ser	Leu	Ser	Val	Ser	Pro	Ser	Ser
		595					600					605			
Tyr	Pro	Glu	Leu	His	Thr	Glu	Val	Pro	Leu	Ser	Val	Leu	Ile	Leu	Gly
	610					615					620				
Leu	Leu	Val	Val	Phe	Ile	Leu	Ser	Val	Cys	Phe	Gly	Ala	Gly	Leu	Phe
625					630					635					640
Val	Phe	Val	Leu	Lys	Arg	Arg	Lys	Gly	Val	Pro	Ser	Val	Pro	Arg	Asn
				645					650					655	
Thr	Asn	Asn	Leu	Asp	Val	Ser	Ser	Phe	Gln	Leu	Gln	Tyr	Gly	Ser	Tyr
			660					665					670		
Asn	Thr	Glu	Thr	His	Asp	Lys	Thr	Asp	Gly	His	Val	Tyr	Asn	Tyr	Ile
		675					680					685			
Pro	Pro	Pro	Val	Gly	Gln	Met	Cys	Gln	Asn	Pro	Ile	Tyr	Met	Gln	Lys
		690				695					700				
Glu	Gly	Asp	Pro	Val	Ala	Tyr	Tyr	Arg	Asn	Leu	Gln	Glu	Phe	Ser	Tyr
705					710					715					720
Ser	Asn	Leu	Glu	Glu	Lys	Lys	Glu	Glu	Pro	Ala	Thr	Pro	Ala	Tyr	Thr
				725					730					735	
Ile	Ser	Ala	Thr	Glu	Leu	Leu	Glu	Lys	Gln	Ala	Thr	Pro	Arg	Glu	Pro
			740					745					750		
Glu	Leu	Leu	Tyr	Gln	Asn	Ile	Ala	Glu	Arg	Val	Lys	Glu	Leu	Pro	Ser
		755					760					765			
Ala	Gly	Leu	Val	His	Tyr	Asn	Phe	Cys	Thr	Leu	Pro	Lys	Arg	Gln	Phe
	770					775					780				
Ala	Pro	Ser	Tyr	Glu	Ser	Arg	Arg	Gln	Asn	Gln	Asp	Arg	Ile	Asn	Lys
785					790					795					800
Thr	Val	Leu	Tyr	Gly	Thr	Pro	Arg	Lys	Cys	Phe	Val	Gly	Gln	Ser	Lys

	805		810		815
Pro Asn His	Pro Leu Leu Gln Ala Lys	Pro Gln Ser Glu	Pro Asp Tyr		
	820	825	830		
Leu Glu Val	Leu Glu Lys Gln Thr Ala Ile Ser Gln Leu				
	835	840	845		

<210> 484  
 <211> 141  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (125)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (131)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 484  
 Phe Cys Leu Leu His Val Pro Ala Ser Cys Tyr Cys Ser Phe Ser Asn  
 1 5 10 15  
 Gly Ile Thr Ser Pro Cys His Ala Leu Gly Ser Pro Ser Leu Ser Ile  
 20 25 30  
 Ser Val Leu Leu Ser Trp Leu Asn Pro Ser Thr Ile Leu Asn Thr Gly  
 35 40 45  
 Ser Ser Cys Pro Ile Pro Arg Leu Thr Leu Ser Asp Leu Pro Ile Ser  
 50 55 60  
 Leu Ala Phe His Ala Pro Leu Pro Pro Pro Gly Phe Asn Trp Val  
 65 70 75 80  
 Arg Ala Val Phe Leu Pro Leu Cys Ser Ala Ser Ala Leu Arg Thr Pro  
 85 90 95  
 Arg Gly Leu Gly Gly Lys Val Leu Thr Ile Phe Thr Leu Cys Leu Pro  
 100 105 110  
 Leu His His Leu Phe Ile Thr Ser Gln Pro Leu Leu Xaa Gln Val Phe  
 115 120 125  
 Thr His Xaa Leu Phe Leu Gln Val Phe Asp Trp Arg Glu  
 130 135 140

<210> 485  
 <211> 8

<212> PRT  
<213> Homo sapiens

<400> 485  
Ser His Ile Val Thr Cys Leu Gly  
1 5

<210> 486  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 486  
Met Gly Leu Lys Asn Ser Ser Leu Ile Thr Cys Phe Leu Leu Ala Phe  
1 5 10 15  
Val Val Phe Val Leu Phe Cys Leu Phe Cys Phe Val Phe Leu Cys Tyr  
20 25 30  
Phe Ile Gly Lys Val Ser Gly Met Cys Ser  
35 40

<210> 487  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 487  
Met Gly Leu Lys Asn Ser Ser Leu Ile Thr Cys Phe Leu Leu Ala Phe  
1 5 10 15  
Val Val Phe Val Leu Phe Cys Leu Phe Cys Phe Val Phe Leu Cys Tyr  
20 25 30  
Phe Ile Gly Lys Val Ser Gly Met Cys Ser  
35 40

<210> 488  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 488  
Met Arg Arg Met Ala Ser Ala Leu Leu Leu Asp Gln Leu Thr Lys Ala  
1 5 10 15  
Leu Leu Ser Gly His Gln Asn Trp Lys Ala Phe  
20 25

<210> 489  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 489  
 Xaa Arg Cys Phe Thr Phe Xaa Phe Thr Asp Ile Val Ile Met Pro Lys  
   1                  5                  10                  15  
 Arg Lys Phe Pro Glu Asn Thr Glu Gly Lys Asp Gly Ser Lys Val Thr  
           20                  25                  30  
 Xaa Gln Glu Pro Thr Arg Arg Ser Ala Arg Leu Ser Ala Lys Pro Ala  
           35                  40                  45  
 Pro Pro Lys Pro Glu Pro Lys Pro Arg Lys Thr Ser Ala Lys Lys Glu  
   50                  55                  60  
 Pro Gly Ala Lys Ile Ser Arg Gly Ala Lys Gly Lys Lys Glu Glu Lys  
   65                  70                  75                  80  
 Gln Glu Ala Gly Lys Glu Gly Thr Ala Pro Ser Glu Asn Gly Glu Thr  
           85                  90                  95  
 Lys Ala Glu Glu Ile His Ile Ser Arg Ser Thr Val Asn Val Ser Thr  
           100                  105                  110  
 Ser Arg Gly Thr Pro Pro Ser Thr Leu Ser Val Lys Gly Gln Ile Glu  
   115                  120                  125  
 Thr Val Arg Val Lys Gly Thr Glu Asn  
   130                  135

<210> 490  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 490

Asn	Lys	Pro	Asp	Thr	Gly	Arg	Lys	Ile	Leu	His	Asp	Leu	Ile	Cys	Gly
1				5					10					15	

Ile	Leu	Lys	Lys	Lys	Lys	Lys	Lys	Ser	Gln	Ile	Tyr	Arg	Val	Asn	Lys
		20						25					30		

Arg	Val	Gly	Tyr	Gln	Xaa	Gln	Val	Gly	Gly	Glu	Trp	Glu	Met
	35						40					45	

<210> 491

<211> 50

<212> PRT

<213> Homo sapiens

<400> 491

Met	Gln	Pro	Pro	Phe	Val	Leu	Thr	Thr	Thr	Thr	Met	Ile	Ser	Leu	Phe
1				5					10					15	

Leu	Ala	Leu	Ile	Ser	Thr	Lys	Lys	Val	His	Leu	Thr	Ile	Pro	Gln	Pro
			20					25					30		

Phe	Thr	Ser	His	Ser	Arg	Leu	Ser	Phe	Asp	Val	Phe	Lys	Arg	Lys	Ala
		35					40					45			

Arg	Ala
	50

<210> 492

<211> 228

<212> PRT

<213> Homo sapiens

<400> 492

Thr	Gln	Asp	His	Gln	Lys	Leu	Cys	Tyr	Ser	Ala	Leu	Ile	Leu	Ala	Met
1				5					10					15	

Val	Phe	Ser	Met	Gly	Glu	Ala	Val	Pro	Tyr	Ala	His	Tyr	Glu	His	Leu
			20					25					30		

Gly	Thr	Pro	Phe	Ala	Gln	Phe	Leu	Leu	Asn	Ile	Val	Glu	Asp	Gly	Leu
		35					40					45			

Pro	Leu	Asp	Thr	Thr	Glu	Gln	Leu	Pro	Asp	Leu	Cys	Val	Asn	Leu	Leu
	50					55					60				

Leu	Ala	Leu	Asn	Leu	His	Leu	Pro	Ala	Ala	Asp	Gln	Asn	Val	Ile	Met
65					70					75					80

Ala	Ala	Leu	Ser	Lys	His	Ala	Asn	Val	Lys	Ile	Phe	Ser	Glu	Lys	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

85					90					95					
Leu	Leu	Leu	Leu	Asn	Arg	Gly	Asp	Asp	Pro	Val	Arg	Ile	Phe	Lys	His
			100					105					110		
Glu	Pro	Gln	Pro	Pro	His	Ser	Val	Leu	Lys	Phe	Leu	Gln	Asp	Val	Phe
		115					120					125			
Gly	Ser	Pro	Ala	Thr	Ala	Ala	Ile	Phe	Tyr	His	Thr	Asp	Met	Met	Ala
		130				135					140				
Leu	Ile	Asp	Ile	Thr	Val	Arg	His	Ile	Ala	Asp	Leu	Ser	Pro	Gly	Asp
145					150				155						160
Lys	Leu	Arg	Met	Glu	Tyr	Leu	Ser	Leu	Met	His	Ala	Ile	Val	Arg	Thr
			165					170						175	
Thr	Pro	Tyr	Leu	Gln	His	Arg	His	Arg	Leu	Pro	Asp	Leu	Gln	Ala	Ile
			180					185					190		
Leu	Arg	Arg	Ile	Leu	Asn	Glu	Glu	Glu	Thr	Ser	Pro	Gln	Cys	Gln	Met
		195					200					205			
Asp	Arg	Met	Ile	Val	Arg	Glu	Met	Cys	Lys	Glu	Phe	Leu	Val	Leu	Gly
		210				215					220				
Glu	Ala	Pro	Ser												
225															

<210> 493  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 493  
 Pro Phe His Phe Ser Thr Pro Ser Ile Thr Gly Leu Phe  
 1 5 10

<210> 494  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 494  
 Phe Leu  
 1

<210> 495  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 495

Met Gln Pro Pro Phe Val Leu Thr Thr Thr Thr Met Ile Ser Leu Phe  
1 5 10 15

Leu Ala Leu Ile Ser Thr Lys Lys Val His Leu Thr Ile Pro Gln Pro  
20 25 30

Phe Thr Ser His Ser Arg Leu Ser Phe Asp Val Phe Lys Arg Lys Ala  
35 40 45

Arg Ala  
50

<210> 496

<211> 71

<212> PRT

<213> Homo sapiens

<400> 496

Met Phe Ile Phe Ile Leu Met Ile His Leu Ile Tyr Met Trp Ile Gln  
1 5 10 15

Gly Thr Lys Phe Met Tyr Lys Ser Ser His Leu Met Asn Val Asp Thr  
20 25 30

Phe Leu Glu Asn Ile Tyr Gln Cys Glu Asn Phe Phe Asn Thr Leu Thr  
35 40 45

Thr Lys Ile Lys Tyr Ser Leu Ile Ser Leu Phe Asn Lys His Gln Asn  
50 55 60

Asn Val Ser Val Phe Ile Leu  
65 70

<210> 497

<211> 14

<212> PRT

<213> Homo sapiens

<400> 497

Leu Phe Ile Leu Val Leu His Asn Glu Asp Asn Leu Tyr Gly  
1 5 10

<210> 498

<211> 71

<212> PRT

<213> Homo sapiens

<400> 498

Met Phe Ile Phe Ile Leu Met Ile His Leu Ile Tyr Met Trp Ile Gln

1	5	10	15
Gly Thr Lys Phe Met Tyr Lys Ser Ser His Leu Met Asn Val Asp Thr			
	20	25	30
Phe Leu Glu Asn Ile Tyr Gln Cys Glu Asn Phe Phe Asn Thr Leu Thr			
	35	40	45
Thr Lys Ile Lys Tyr Ser Leu Ile Ser Leu Phe Asn Lys His Gln Asn			
	50	55	60
Asn Val Ser Val Phe Ile Leu			
65	70		

<210> 499  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (82)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (88)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 499  
 Gly Arg Cys Leu Asp Cys Phe Asn Pro Phe Leu Leu Ser Cys Pro Arg  
 1 5 10 15  
 Ile Gly Leu Val Glu Gln Gly Gly Val Lys Ile Glu Pro Leu Pro Lys  
 20 25 30  
 Glu Val Lys Val Tyr Leu Leu Thr Thr Ser Ser Ala Pro Tyr Cys Met  
 35 40 45  
 His His Ser Leu Val Glu Phe His Leu Lys Glu Leu Arg Asn Lys Asp



50		55		60
Thr Asn Ile Glu Val	Thr Phe Leu Ser Ser	Asn Ile Thr Ser Ser Ser		
65	70	75	80	
Lys Xaa Thr Ile Pro	Lys Gln Xaa Arg Tyr	Gly Glu Arg Asn His Xaa		
	85	90	95	
Pro Met Pro Thr Pro	Gln Cys Gln Ile Xaa	Gln Val Lys Phe Xaa Phe		
	100	105	110	
Gln Ser Ser Asn Arg	Val Trp Lys Lys Asp	Arg Thr Thr Ile Ile Gly		
	115	120	125	
Lys Phe Cys Thr Ala	Leu Leu Pro Val Asn	Asp Arg Glu Lys Met Val		
	130	135	140	
Cys Leu Pro Glu Pro	Val Asn Leu Gln Ala	Ser Val Thr Val Ser Cys		
145	150	155	160	
Asp Leu Lys Ile Ala	Cys Val			
	165			

<210> 500  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 500  
 Met  
 1

<210> 501  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 501  
 Thr Thr Glu Ile Cys Gly Thr Leu Ile Leu Arg Glu Met Ile  
 1 5 10

<210> 502  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 502  
 Met Ser Leu Phe Leu Thr Leu Ala Leu Cys Ser Val Leu Leu Val His  
 1 5 10 15

Leu Asn Val Leu Ala Arg Asn Cys Phe Tyr Asp Ser Gly Phe Val Val

	20		25		30										
His	Pro	Trp	Ile	Trp	Leu	Gly	His	Ser	Leu	Pro	Tyr	Phe	Tyr	Phe	Ser
		35					40					45			
Pro	Leu	Ser	Gln	Arg	Leu	Phe	Ser	Tyr	Leu	Trp	Thr	Phe	Ile	Phe	Pro
	50					55					60				
Cys	Arg	Leu													
	65														

<210> 503  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 503															
Met	Ser	Leu	Phe	Leu	Thr	Leu	Ala	Leu	Cys	Ser	Val	Leu	Leu	Val	His
1				5					10					15	
Leu	Asn	Val	Leu	Ala	Arg	Asn	Cys	Phe	Tyr	Asp	Ser	Gly	Phe	Val	Val
			20					25					30		
His	Pro	Trp	Ile	Trp	Leu	Gly	His	Ser	Leu	Pro	Tyr	Phe	Tyr	Phe	Ser
		35					40					45			
Pro	Leu	Ser	Gln	Arg	Leu	Phe	Ser	Tyr	Leu	Trp	Thr	Phe	Ile	Phe	Pro
	50					55					60				
Cys	Arg	Leu													
	65														

<210> 504  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 504		
Leu	Tyr	Leu
1		5

<210> 505  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 505															
Ile	Ile	Tyr	Leu	Leu	Phe	Val	Thr	Lys	Trp	Glu	Ile	Arg	Lys	Lys	Val
1				5					10					15	
Arg	Lys	Tyr	Leu	Arg	Gly	Lys	Ser	Phe	Leu	Leu	Ser	His	Val	Phe	Ser

	20		25		30										
Thr	Cys	Leu	Pro	Trp	Tyr	Ile	Ile	Asn	Thr	Asp	Ile	Leu	His	Thr	Pro
		35					40					45			
Cys	Lys	Ile	Leu	Leu	Lys	Leu	Ser	Ser	Thr	Trp	His	Val	Glu	Tyr	Val
	50					55					60				
Pro															
65															

<210> 506  
 <211> 151  
 <212> PRT  
 <213> Homo sapiens

<400> 506															
Met	Val	Val	Ala	Ala	Val	Tyr	Ile	Leu	Tyr	Leu	Leu	Phe	Leu	Ile	Val
1				5					10					15	
Arg	Ala	Cys	Ser	Glu	Leu	Arg	His	Met	Pro	Tyr	Val	Asp	Leu	Arg	Leu
			20					25					30		
Lys	Phe	Leu	Thr	Ala	Leu	Thr	Phe	Val	Val	Leu	Val	Ile	Ser	Ile	Ala
		35					40					45			
Ile	Leu	Tyr	Leu	Arg	Phe	Gly	Ala	Gln	Val	Leu	Gln	Asp	Asn	Phe	Val
	50					55					60				
Ala	Glu	Leu	Ser	Thr	His	Tyr	Gln	Asn	Ser	Ala	Glu	Phe	Leu	Ser	Phe
65					70					75				80	
Tyr	Gly	Leu	Leu	Asn	Phe	Tyr	Leu	Tyr	Thr	Leu	Ala	Phe	Val	Tyr	Ser
				85					90					95	
Pro	Ser	Lys	Asn	Ala	Leu	Tyr	Glu	Ser	Gln	Leu	Lys	Asp	Asn	Pro	Ala
			100					105					110		
Phe	Ser	Met	Leu	Asn	Asp	Ser	Asp	Asp	Asp	Val	Ile	Tyr	Gly	Ser	Asp
		115					120					125			
Tyr	Glu	Glu	Met	Pro	Leu	Gln	Asn	Gly	Gln	Ala	Ile	Arg	Ala	Lys	Tyr
	130					135					140				
Lys	Glu	Glu	Ser	Asp	Ser	Asp									
145					150										

<210> 507  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 507

Leu Phe Leu Pro Phe Ser Met Val Leu Phe Cys Asp Pro Leu Asn Ser  
1 5 10 15

Lys Gly Ser Leu Ile Cys Gly Cys Phe Arg Ala Val Leu Pro Arg  
20 25 30

<210> 508

<211> 151

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 508

Met Val Val Ala Ala Val Tyr Ile Leu Tyr Leu Leu Phe Leu Ile Val  
1 5 10 15

Arg Ala Cys Ser Glu Leu Arg His Met Pro Tyr Val Asp Leu Arg Leu  
20 25 30

Lys Phe Leu Thr Ala Leu Thr Phe Val Val Leu Val Ile Ser Ile Ala  
35 40 45

Ile Leu Tyr Leu Arg Phe Gly Ala Gln Val Leu Gln Asp Asn Phe Val  
50 55 60

Ala Glu Leu Ser Thr His Tyr Gln Asn Ser Ala Glu Phe Leu Ser Phe  
65 70 75 80

Tyr Gly Leu Leu Asn Phe Tyr Leu Tyr Thr Leu Ala Phe Val Tyr Ser  
85 90 95

Pro Ser Lys Asn Ala Leu Tyr Glu Ser Gln Leu Lys Asp Asn Pro Ala  
100 105 110

Phe Ser Met Leu Asn Asp Ser Asp Asp Asp Val Ile Tyr Gly Ser Asp  
115 120 125

Tyr Xaa Glu Met Pro Leu Gln Asn Gly Gln Ala Ile Arg Ala Lys Tyr  
130 135 140

Lys Glu Glu Ser Asp Ser Asp  
145 150

<210> 509

<211> 51

<212> PRT

<213> Homo sapiens

<400> 509

Met	Arg	Cys	Gly	Glu	Ile	Ile	Leu	Ala	Ser	Val	Leu	Gly	Leu	Leu	Leu
1				5					10					15	
Thr	Leu	Pro	Pro	Thr	Ser	Cys	His	Leu	Asn	Lys	Ser	Phe	Pro	Phe	Leu
			20					25					30		
Cys	Leu	Pro	Trp	Ser	Gln	Ala	Leu	Ser	Leu	Asn	Pro	His	Ser	Gly	Asn
		35					40					45			
Glu	Ala	Gly													
	50														

<210> 510  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

Met	Arg	Cys	Gly	Glu	Ile	Ile	Leu	Ala	Ser	Val	Leu	Gly	Leu	Leu	Leu
1				5					10					15	
Thr	Leu	Pro	Pro	Thr	Ser	Cys	His	Leu	Asn	Lys	Ser	Phe	Pro	Phe	Leu
			20					25					30		
Cys	Leu	Pro	Trp	Ser	Gln	Ala	Leu	Ser	Leu	Asn	Pro	His	Ser	Gly	Asn
		35					40					45			
Glu	Ala	Gly													
	50														

<210> 511  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

Leu	Arg	Asp	Pro	Glu	Asn	Cys	Val	Glu	Cys	Gly	Asp	Gly	Glu	Cys	Ala
1				5					10					15	
Cys	Gly	Cys	Thr	His	Ile	Gly	Tyr	Leu	Cys	Val	Cys	Thr	Val	Tyr	Met
			20					25					30		
Gln	Gly	Cys	Val	Tyr	Val	Cys	Met	Cys	Ile	Arg	Val	Trp	Val	Trp	Val
		35					40					45			
Trp	Gly	Val	Phe	Arg	Glu	Cys	Ala	Tyr	Thr	His	Gly	Cys	Leu	Gly	Met
	50					55					60				
Cys	Thr	Cys	Leu	Cys	Val	Arg	Gly	Val	Cys	Val	Cys	Val	Cys	Met	Val
	65				70				75						80
Cys	Val	His	Met	Tyr	Ala	Leu	Val	Cys	Val	His	Thr	Trp	Gly	Val	Cys
			85					90						95	

Ala Tyr Val Glu Val  
100

<210> 512  
<211> 90  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 512  
Met Tyr Arg Gly Xaa Arg Val Lys His Pro Phe Val Phe Arg Lys Leu  
1 5 10 15  
Gln Val Thr Gln Asp Asp Trp Ile Val Arg Tyr Arg Gly Leu Lys Gly  
20 25 30  
Asn Ala Glu Val Val His Arg Glu Gln Val Asn Leu Pro Arg Thr Met  
35 40 45  
Gly Leu Arg His Ala Leu Leu Thr Arg Arg Ala Thr Arg Ser Met Gly  
50 55 60  
Ala Ile Cys Val Ala Gly Cys Gly Ile Pro Ala Gln Val Ser Leu Ser  
65 70 75 80  
Lys Arg Gly Ile Leu Leu Val Pro Lys Thr  
85 90

<210> 513  
<211> 45  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 513  
Leu Gly Ser Ala Arg His Arg Pro His Ala Leu Val Leu Gly Met Ser  
1 5 10 15  
Ser Pro Phe Leu Lys Lys Thr Cys Ser Ala Val Thr Thr Thr Lys Lys  
20 25 30  
His Gly Glu Asp Trp Ala Xaa Asp Met Met Phe Ser Ser  
35 40 45

<210> 514  
<211> 35  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 514  
Leu Thr Ser Phe Gly Leu Arg Ala Ile Leu Ile Phe Gln Met Xaa Ser  
1 5 10 15  
Asp Val Asn Xaa Ile Gly Lys His Gln Arg Asn Gly Cys Lys Val Ser  
20 25 30  
Gly Thr Glu  
35

<210> 515  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 515  
Met Gly Gln Ala Ser Ala Leu Ala Ser Leu Leu Leu Arg Ala Leu Ala  
1 5 10 15  
Leu Val Leu Gly Ala Arg Ile Gly Lys Gly Gly Gln Arg Gly Met Ile  
20 25 30  
Ile Ile Ser Ile Ala Ala Leu Pro Ser Thr Gly Cys Gln Glu Leu Tyr  
35 40 45  
Ile His  
50

<210> 516  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 516  
Ser Pro Ile Ile Phe Pro Leu Asn His Tyr Thr Arg Ile Ser His Leu  
1 5 10 15

Cys Pro Pro Asp Ile Leu Gly Trp Ile Ile Leu Gly Leu Gly Gly Cys  
                   20                  25                  30  
 Pro Val Arg Cys Arg Thr Phe Ser Ser Ile Leu Gly Leu Phe Leu Leu  
                   35                  40                  45  
 Asp Ala Ser Ser Thr Pro Phe Leu Ser Tyr Asp Arg Leu Lys Cys Pro  
           50                  55                  60  
 Pro Gly Lys Arg Trp Trp Gln Asn Tyr Pro Trp  
   65                  70                  75

<210> 517  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 517  
 Met Asn Glu Ser Phe Tyr Cys Ser Ala Phe Leu Pro Ala Phe Ile Val  
   1                  5                  10                  15  
 Cys Trp Ile Leu Ala Ile Leu Ile Val Leu Thr Cys Gly Phe Arg Met  
                   20                  25                  30  
 Thr Asp Tyr Ile Glu His Leu His Glu Ile Leu Cys His Leu Tyr Ile  
           35                  40                  45  
 Phe Phe Gly Lys Ala Ser Ile Ser Gly Leu Ser Thr  
   50                  55                  60

<210> 518  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 518  
 Met Asn Glu Ser Phe Tyr Cys Ser Ala Phe Leu Pro Ala Phe Ile Val  
   1                  5                  10                  15  
 Cys Trp Ile Leu Ala Ile Leu Ile Val Leu Thr Cys Gly Phe Arg Met  
                   20                  25                  30  
 Thr Asp Tyr Ile Glu His Leu His Glu Ile Leu Cys His Leu Tyr Ile  
           35                  40                  45  
 Phe Phe Gly Lys Ala Ser Ile Ser Gly Leu Ser Thr  
   50                  55                  60

<210> 519  
 <211> 33



<212> PRT  
<213> Homo sapiens

<400> 519  
Met Ala Ala Ala Trp Phe Ile Leu Leu Phe Lys His Cys Val His Ser  
1 5 10 15  
Ser Ser Ile Val Asp Leu Ser Phe Lys Glu Ser Ser Pro Trp Asp Ile  
20 25 30

Lys

<210> 520  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 520  
Ala Trp Tyr Val Ile Ile Thr Leu Val Phe Asp Gly  
1 5 10

<210> 521  
<211> 15  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (12)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 521  
Ala Trp Tyr Val Val Met Ala Leu Thr Xaa Met Xaa Trp Asp Phe  
1 5 10 15

<210> 522  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 522  
Leu Leu Leu Asn Phe Cys Ala Val Thr Ala Phe Phe Thr Pro Ile Leu  
1 5 10 15

Gln

<210> 523  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 523  
Met Ala Ala Ala Trp Phe Ile Leu Leu Phe Lys His Cys Val His Ser  
1 5 10 15  
Ser Ser Ile Val Asp Leu Ser Phe Lys Glu Ser Ser Pro Trp Asp Ile  
20 25 30

Lys

<210> 524  
<211> 85  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 524  
Leu Trp Arg Tyr Leu Gly Phe Cys Ile Leu Cys His Ile Trp Gln Lys  
1 5 10 15  
Thr Phe Tyr Leu Cys Cys His Glu Lys Gly Cys Thr Met Thr Gln Xaa  
20 25 30  
Pro Pro Gln Ala Ser Gly Pro Ala Glu Ala Lys Ser Glu His Arg Glu  
35 40 45  
Lys Arg Arg Lys Arg Glu Asp Arg Trp Gly Lys Gln Glu Arg Arg Asp  
50 55 60  
Arg Asp Val His Ile Leu Gly Cys Gln Val Trp His Ser Cys Ser Ala  
65 70 75 80  
Arg Val Ala Leu Ser  
85

<210> 525  
<211> 91  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 525

Met Arg Ala Cys Val Cys Val Tyr Ala Cys Ala His Met Cys Val Cys  
1 5 10 15

Leu Ala Phe Ser Tyr Leu Ile Gly Cys Ile Lys Cys Arg Pro Lys Asp  
20 25 30

Glu Gly Glu Asp Tyr Thr Gln Ser Leu Ala Val Thr Ala Ser Val Gln  
35 40 45

Lys Ser Cys Val Trp Ala Gln Asn Tyr Ser Leu His Ser Cys Asn Thr  
50 55 60

Tyr Ala Ser Arg Xaa Gln Arg Ala Leu Ser Pro Gly Leu His Asn Arg  
65 70 75 80

Arg Glu Lys Gln Leu Cys Gly Glu Leu Val Thr  
85 90

<210> 526

<211> 96

<212> PRT

<213> Homo sapiens

<400> 526

Met Arg Ala Cys Val Cys Val Tyr Ala Cys Ala His Met Cys Val Cys  
1 5 10 15

Leu Ala Phe Ser Tyr Leu Ile Gly Cys Ile Lys Cys Arg Pro Lys Asp  
20 25 30

Glu Gly Glu Asp Leu His Pro Lys Pro Gly Cys Asp Ser Phe Cys Pro  
35 40 45

Glu Lys Leu Cys Leu Gly Ser Glu Leu Leu Thr Thr Phe Met Gln Tyr  
50 55 60

Ile Cys Lys Gln Gly Ala Glu Ser Phe Ile Thr Gly Ala Thr Gln Gln  
65 70 75 80

Lys Gly Lys Thr Val Met Trp Arg Ala Gly Asp Leu Thr Arg Glu Ala  
85 90 95

<210> 527

<211> 48

<212> PRT  
<213> Homo sapiens

<400> 527

Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val  
1 5 10 15

Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu  
20 25 30

Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys  
35 40 45

<210> 528  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 528

Met Phe Lys Met  
1

<210> 529  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 529

Ile Tyr Gln His Phe Ser Leu Trp Leu Gly  
1 5 10

<210> 530  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 530

Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val  
1 5 10 15

Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu  
20 25 30

Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys  
35 40 45

<210> 531  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 531  
His Ser Asp Leu Gly Leu Ser Cys Pro Glu Leu Leu Leu Pro Cys Ile  
1 5 10 15  
Ile Leu Ile Thr Phe Ser  
20

<210> 532  
<211> 96  
<212> PRT  
<213> Homo sapiens

<400> 532  
Met His His His Ala His Leu Ser Cys Tyr Asp Phe Leu Met Leu Leu  
1 5 10 15  
Phe Leu Leu Leu His Pro Leu Leu Pro Pro Pro Pro Thr Ala Ser Leu  
20 25 30  
Pro Pro Ser Pro Leu Ile Cys Leu Phe Leu His Thr Val Pro Trp Asn  
35 40 45  
Leu Ser Leu Ala Ser Ser His Ser Thr His Ser Leu Arg Ala Leu Pro  
50 55 60  
Phe Thr Ser Ala Ile Val Tyr Thr Phe Thr Leu Asp His Ser Ser Glu  
65 70 75 80  
Ile Ser Gln Leu Leu His Pro Asp Gly Cys Ser Ala Pro Pro Pro Gly  
85 90 95

<210> 533  
<211> 111  
<212> PRT  
<213> Homo sapiens

<400> 533  
Met His His His Ala His Leu Ser Cys Tyr Asp Phe Leu Met Leu Leu  
1 5 10 15  
Phe Leu Leu Leu His Pro Leu Leu Pro Pro Pro Pro Thr Ala Ser Leu  
20 25 30

Pro Pro Ser Pro Leu Ile Cys Leu Phe Leu His Thr Val Pro Trp Asn  
           35                          40                          45  
 Leu Ser Leu Ala Ser Ser His Ser Thr His Ser Leu Arg Ala Leu Pro  
           50                          55                          60  
 Phe Thr Ser Ala Ile Val Tyr Thr Phe Thr Leu Asp His Ser Ser Glu  
   65                          70                          75                          80  
 Ile Ser Gln Leu Leu His Pro Asp Gly Cys Ser Ala Pro Pro Pro Gly  
                           85                          90                          95  
 Cys Pro Thr Gly Thr Leu Asn Pro Thr Ser Pro Lys Leu Asn Ser  
           100                          105                          110

<210> 534  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 534  
 Gly Arg Lys Arg Asp Gly Gly Trp Arg Lys Gly Gln Lys Ala Gln Val  
   1                          5                          10                          15  
 Glu Val Pro Xaa Leu Leu Ala Arg Arg Ile Leu Trp Pro Leu Gly Gly  
           20                          25                          30  
 Trp Ser Gly Cys Val Asn Gln Ser Leu Ser Gln Trp Arg Ala Gly Leu  
           35                          40                          45  
 Val Val Cys Val Phe Ile Thr Gly Pro His Pro Xaa His Thr His Thr  
           50                          55                          60  
 Arg Thr His Cys Gly Val  
   65                          70

<210> 535  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 535

Ala	Leu	Ser	Ile	Asn	Lys	Lys	Gln	Pro	Asn	Ala	Trp	Gly	Glu	Thr	Val
1				5					10					15	
Thr	Lys	Gly	Pro	Ala	Phe	Arg	Asn	Trp	Asp	Val	Lys	Gly	Val	Glu	Asn
			20					25					30		
Gly	Trp	Gly	Val	Lys	Gly	Glu	His	Val	Lys	Met	Gln	Glu	Ser	Ser	Phe
		35					40					45			
Gly	Asp	Ile	Ala	Pro	Gly	Gly	Met	Trp	Val	Ser	Met	Asn	Tyr	Met	Lys
	50					55					60				
Gly	Cys	Pro	Ser	Cys	Ser										
65					70										

<210> 536  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

Met	Val	Ala	Val	Cys	Trp	Cys	Leu	Ala	Leu	Thr	Ala	Lys	Val	Ser	Ala
1				5					10					15	
Ser	Cys	Ser	Tyr	Met	Lys	Leu	Arg	Pro	Trp	Pro	Ala	Asp	Pro	Trp	Gln
			20					25					30		
Cys	Trp	Ala	Trp	Thr	Trp	Leu	Pro	Gln	Pro	Cys	Cys	Pro	Ala	Thr	Thr
		35					40					45			
Gln	Thr	Leu	Ala	Trp	Cys	Ser									
	50					55									

<210> 537  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

Met	Lys	Cys	Ser	Lys	Val	Leu	Thr	Gln	Leu	Ile	Leu	Phe	Thr	Pro	Leu
1				5					10					15	
Gly	Val	Cys	Lys	Met	Ser	Leu	Phe	Tyr	Lys	His	Asn	His	Asn	Ser	Asn
			20					25					30		
Lys	Pro	Gln	Val	Val	Ala	Ser	Val								
		35					40								

<210> 538  
 <211> 40  
 <212> PRT

<213> Homo sapiens

<400> 538

Met	Lys	Cys	Ser	Lys	Val	Leu	Thr	Gln	Leu	Ile	Leu	Phe	Thr	Pro	Leu
1				5					10					15	

Gly	Val	Cys	Lys	Met	Ser	Leu	Phe	Tyr	Lys	His	Asn	His	Asn	Ser	Asn
			20					25					30		

Lys	Pro	Gln	Val	Val	Ala	Ser	Val
		35					40

<210> 539

<211> 195

<212> PRT

<213> Homo sapiens

<400> 539

Arg	Gln	Ala	Val	Ile	Val	Cys	Arg	Arg	Arg	Phe	Val	Met	Gly	Pro	Val
1				5					10					15	

Arg	Leu	Gly	Ile	Leu	Leu	Phe	Leu	Phe	Leu	Ala	Val	His	Glu	Ala	Trp
			20					25					30		

Ala	Gly	Met	Leu	Lys	Glu	Glu	Asp	Asp	Asp	Thr	Glu	Arg	Leu	Pro	Ser
		35					40					45			

Lys	Cys	Glu	Val	Cys	Lys	Leu	Leu	Ser	Thr	Glu	Leu	Gln	Ala	Glu	Leu
	50					55					60				

Ser	Arg	Thr	Gly	Arg	Ser	Arg	Glu	Val	Leu	Glu	Leu	Gly	Gln	Val	Leu
65					70					75					80

Asp	Thr	Gly	Lys	Arg	Lys	Arg	His	Val	Pro	Tyr	Ser	Val	Ser	Glu	Thr
				85					90					95	

Arg	Leu	Glu	Glu	Ala	Leu	Glu	Asn	Leu	Cys	Glu	Arg	Ile	Leu	Asp	Tyr
			100					105					110		

Ser	Val	His	Ala	Glu	Arg	Lys	Gly	Ser	Leu	Arg	Tyr	Ala	Lys	Gly	Gln
		115					120					125			

Ser	Gln	Thr	Met	Ala	Thr	Leu	Lys	Gly	Leu	Val	Gln	Lys	Gly	Val	Lys
	130					135					140				

Val	Asp	Leu	Gly	Ile	Pro	Leu	Glu	Leu	Trp	Asp	Glu	Pro	Ser	Val	Glu
145					150					155					160

Val	Thr	Tyr	Leu	Lys	Lys	Gln	Cys	Glu	Thr	Met	Leu	Glu	Arg	Gly	Gly
				165					170					175	

Arg	Gly	Gly	Arg	Gly	Arg	Gly	Arg	Gln	Asp	Asp	Gln	Asp	Arg	Lys	Pro
			180					185					190		

Pro Gln Thr



<210> 540  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 540  
 Trp Pro Thr Val Ala Ser Pro Arg Thr Ala Ser Arg Pro Xaa Gly Pro  
   1                  5                  10                  15  
 Cys Gln Asn Cys Ala Cys Trp Thr Thr Ser Gly Ala Gly Cys Arg Pro  
                   20                  25                  30  
 Gly Gln Thr Ser Met Pro Pro Trp Thr Thr Gly Pro Arg Cys Cys Thr  
                   35                  40                  45  
 Ser Gln Pro Pro Thr Gly Ser Ala Arg Arg Leu Pro Cys Cys Trp Asn  
   50                  55                  60  
 Thr Glu Pro Ala  
   65

<210> 541  
 <211> 201  
 <212> PRT  
 <213> Homo sapiens

<400> 541  
 Arg Gln Ala Val Ile Val Cys Arg Arg Arg Phe Val Met Gly Pro Val  
   1                  5                  10                  15  
 Arg Leu Gly Ile Leu Leu Phe Leu Phe Leu Ala Val His Glu Ala Trp  
                   20                  25                  30  
 Ala Gly Met Leu Lys Glu Glu Asp Asp Asp Thr Glu Arg Leu Pro Ser  
                   35                  40                  45  
 Lys Cys Glu Val Cys Lys Leu Leu Ser Thr Glu Leu Gln Ala Glu Leu  
   50                  55                  60  
 Ser Arg Thr Gly Arg Ser Arg Glu Val Leu Glu Leu Gly Gln Val Leu  
   65                  70                  75                  80  
 Asp Thr Gly Lys Arg Lys Arg His Val Pro Tyr Ser Val Ser Glu Thr  
                   85                  90                  95  
 Arg Leu Glu Glu Ala Leu Glu Asn Leu Cys Glu Arg Ile Leu Asp Tyr

	100		105		110										
Ser	Val	His	Ala	Glu	Arg	Lys	Gly	Ser	Leu	Arg	Tyr	Ala	Lys	Gly	Gln
	115						120					125			
Ser	Gln	Thr	Met	Ala	Thr	Leu	Lys	Gly	Leu	Val	Gln	Lys	Gly	Val	Lys
	130						135				140				
Val	Asp	Leu	Gly	Ile	Pro	Leu	Glu	Leu	Trp	Asp	Glu	Pro	Ser	Val	Glu
145					150					155					160
Val	Thr	Tyr	Leu	Lys	Lys	Gln	Cys	Glu	Thr	Met	Leu	Glu	Glu	Glu	Glu
				165					170					175	
Glu	Glu	Glu	Glu	Glu	Glu	Gly	Gly	Asp	Lys	Met	Thr	Lys	Thr	Gly	Ser
			180					185					190		
His	Pro	Lys	Leu	Asp	Arg	Glu	Asp	Leu							
	195						200								

<210> 542  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 542  
 Met Pro Pro Arg Ala Ala Trp Ala Trp Leu Leu Cys Gly Ala Ser  
 1 5 10 15

<210> 543  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 543  
 Met Pro Pro Arg Ala Ala Trp Ala Trp Leu Leu Cys Gly Ala Ser  
 1 5 10 15

<210> 544  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 544

Ser	Gln	Leu	Leu	Arg	Arg	Xaa	Arg	Gln	Glu	Asp	Cys	Leu	Ser	Pro	Xaa
1				5					10					15	

Gly	Gly	Ser	Cys	Ser	Glu	Pro	Arg	Leu	Arg	His	Cys	Thr	Pro	Ala	Trp
			20					25					30		

Val	Thr	Glu	Arg	Asp	Ser	Val	Ser	Lys	Lys	Lys	Lys	Lys	Thr	Ser	Glu
		35					40					45			

Val	Gly	Ala	Val	Pro	Tyr	Phe	Cys	Pro	Thr	Pro	Ile	Lys	Arg	Ile	Pro
	50					55					60				

Lys	Thr	Thr	Cys	Gly	Asn	Leu	Ile	Ile	Leu	Ser	Asn	Leu	Leu	Phe	Gly
65					70					75					80

Gln	Asp	Trp	His	Leu	Pro	Cys	Phe	Ser	Leu	Leu	Leu	Ala	Val	Lys	His
				85					90					95	

Gly	Phe	Lys	Glu	Glu	Cys	Phe	Ser	Glu	Phe	Thr	Leu	Tyr	Ile	Ser	Asp
			100					105					110		

Leu	Glu	Val	Ile
			115

<210> 545

<211> 51

<212> PRT

<213> Homo sapiens

<400> 545

Met	Ile	Leu	Ile	Met	Ser	Met	Asp	Ser	Val	Lys	Leu	Val	Leu	Gly	Trp
1				5					10					15	

Pro	Leu	Trp	Val	Leu	Cys	Phe	Trp	Gln	Ala	Ala	Trp	Cys	Phe	Lys	Lys
			20					25					30		

Ala	Phe	Glu	Trp	Gln	Gln	Thr	Leu	Pro	Leu	Tyr	Ser	Thr	Glu	Met	Val
		35					40					45			

Asn	Lys	Pro
		50

<210> 546

<211> 51

<212> PRT

<213> Homo sapiens

<400> 546

Met	Ile	Leu	Ile	Met	Ser	Met	Asp	Ser	Val	Lys	Leu	Val	Leu	Gly	Trp
1				5					10					15	

Pro Leu Trp Val Leu Cys Phe Trp Gln Ala Ala Trp Cys Phe Lys Lys  
20 25 30

Ala Phe Glu Trp Gln Gln Thr Leu Pro Leu Tyr Ser Thr Glu Met Val  
35 40 45

Asn Lys Pro  
50

<210> 547  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 547  
Met Ala Ala Ala Arg Asn Leu Arg Thr Ala Leu Ile Phe Gly Gly Phe  
1 5 10 15

Ile Ser Met Val Gly Ala Ala Phe Tyr Pro Ile Tyr Phe Arg Pro Leu  
20 25 30

Met Arg Leu Glu Glu Tyr Gln Lys Glu Gln Ala Val Asn Arg Ala Gly  
35 40 45

Ile Val Gln Glu Asp Val Gln Pro Pro Gly Leu Lys Val Trp Ser Asp  
50 55 60

Pro Phe Gly Arg Lys  
65

<210> 548  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 548  
Met Ala Ala Ala Arg Asn Leu Arg Thr Ala Leu Ile Phe Gly Gly Phe  
1 5 10 15

Ile Ser Met Val Gly Ala Ala Phe Tyr Pro Ile Tyr Phe Arg Pro Leu  
20 25 30

Met Arg Leu Glu Glu Tyr Gln Lys Glu Gln Ala Val Asn Arg Ala Gly  
35 40 45

Ile Val Gln Glu Asp Val Gln Pro Pro Gly Leu Lys Val Trp Ser Asp  
50 55 60

Pro Phe Gly Arg Lys  
65

<210> 549  
<211> 79  
<212> PRT  
<213> Homo sapiens

<400> 549  
Ser Gly Trp Gln Val Pro Ser Ser Val Lys His Leu Pro Tyr Asp Asn  
1 5 10 15  
Leu Arg Ser His Cys Val Ala Asp Glu Gly Glu Thr Glu Val Glu Gly  
20 25 30  
Thr Arg Ala Thr Trp Val Glu His Ser Gly Arg Pro Gly Val Gly Ser  
35 40 45  
Gly Arg Pro Pro Gly Thr Ser Leu Thr Thr Leu Pro Leu Leu Leu Thr  
50 55 60  
His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg  
65 70 75

<210> 550  
<211> 89  
<212> PRT  
<213> Homo sapiens

<400> 550  
Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala  
1 5 10 15  
Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Trp Arg Ala Ala Ala Ala  
20 25 30  
Gln Trp His Val Cys Ala Ser His Cys Leu Pro Leu His Pro Ala Phe  
35 40 45  
Ser Ala Leu Gly Pro His Pro Asp Pro Gly Arg Ala Gly Pro Gly Ala  
50 55 60  
Ala Pro Arg Asp Cys Ala His Pro Glu Leu His Pro Leu Cys Leu Pro  
65 70 75 80  
Arg Trp Ser Leu Gln Leu Leu Pro Arg  
85

<210> 551  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 551  
Pro Trp Ala Ser Ser His Leu Gly Pro Arg Pro Tyr Val His Gly Leu

1 5 10 15  
Ala Pro Ser Gly Pro  
20

<210> 552  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 552  
Pro Trp Pro Pro Leu Val  
1 5

<210> 553  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 553  
Pro Trp Pro Pro Leu Val  
1 5

<210> 554  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 554  
Asp Ile Leu Asn Leu Tyr Cys Thr Phe Tyr Leu Arg Gly Ser Ser Phe  
1 5 10 15

Thr Cys Val Phe Ile Cys Val Tyr Leu Ser Tyr Ser Lys Arg Ser Arg  
20 25 30

Glu Ser Pro Cys Pro Arg Ser Ser Ile Leu Arg Ser Glu Asp Val Gln  
35 40 45

Asn Ser Ser Arg  
50

<210> 555  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 555  
Met Gly Gly Asn Val Leu Ile Phe His Phe Arg Cys Leu Trp Lys Cys  
1 5 10 15

Trp Gly Arg Val Arg Gly Leu Phe Leu Ser Gly Gly Pro Leu Thr Gln  
20 25 30

Ser Ile Phe Asn Ser Leu Phe  
35

<210> 556  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 556  
Gly Gly Asn Val Leu Ile Phe His Phe Arg Cys Leu  
1 5 10

<210> 557  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 557  
Met Ser His Cys Thr Trp Pro Leu Asp Tyr Ser Phe Leu Phe Met Ser  
1 5 10 15  
Cys Ala Ser Ile Cys Gly Gln His Gly Ala Ser Val Gly Asn Thr Gly  
20 25 30  
Arg Lys Gln Val Gln Ile Trp Leu Gly Leu Leu Ala Trp Gln Leu Gly  
35 40 45  
Lys Pro Pro Leu Leu Trp Leu Leu Pro Arg Leu Phe Met Thr Val Ala  
50 55 60  
Ala His Gln Leu Gln Leu  
65 70

<210> 558  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 558  
Met Ser His Cys Thr Trp Pro Leu Asp Tyr Ser Phe Leu Phe Met Ser  
1 5 10 15  
Cys Ala Ser Ile Cys Gly Gln His Gly Ala Ser Val Gly Asn Thr Gly  
20 25 30  
Arg Lys Gln Val Gln Ile Trp Leu Gly Leu Leu Ala Trp Gln Leu Gly  
35 40 45

Lys Pro Pro Leu Leu Trp Leu Leu Pro Arg Leu Phe Met Thr Val Ala  
50 55 60

Ala His Gln Leu Gln Leu  
65 70

<210> 559  
<211> 62  
<212> PRT  
<213> Homo sapiens

<400> 559  
Val Tyr Gln Arg Lys Ser Thr Val Val Leu Gly Gly Phe Leu Leu Trp  
1 5 10 15

Asp Ile Asp Phe Leu Phe Phe Phe Arg Asn Ile Val Cys Cys Asn Leu  
20 25 30

Asn Lys Asn Tyr Asp Ile Leu Arg Tyr Phe Ile Asp Lys Pro Asn Lys  
35 40 45

Asn Ile Cys Phe Tyr Phe Lys Val Asn Val Phe Leu Phe Ser  
50 55 60

<210> 560  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 560  
Met Leu Arg Phe Ser Ser Ser Leu Leu Glu Cys Leu Leu Ser Pro Leu  
1 5 10 15

Cys Leu Thr Asp Ala Thr Gly His His Leu Asp His Pro Ile Leu Val  
20 25 30

Pro Val Gln Val Gln Lys Arg Asn Asn Val Leu Lys Phe Thr Ser  
35 40 45

<210> 561  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 561  
Met Leu Ile Thr Ile Ser Leu Glu Leu Leu Leu Arg Leu Val Gly Ala  
1 5 10 15

Ala Leu Gln Glu Lys Gln Gln Pro Leu Ser Leu Pro Ser Cys Gly Glu  
20 25 30



Gln Gly Gly Asp Glu Arg Tyr Leu Gly Arg Pro Gly Lys Ser Leu Lys  
35 40 45

Asn

<210> 562  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 562  
Met Leu Ile Thr Ile Ser Leu Glu Leu Leu Leu Arg Leu Val Gly Ala  
1 5 10 15

Ala Leu Gln Glu Lys Gln Gln Pro Leu Ser Leu Pro Ser Cys Gly Glu  
20 25 30

Gln Gly Gly Asp Glu Arg Tyr Leu Gly Arg Pro Gly Lys Ser Leu Lys  
35 40 45

Asn

<210> 563  
<211> 47  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 563  
Met Leu Ile Phe Ser Phe Leu Ser Phe Trp Phe Phe Gln Ser Cys Gln  
1 5 10 15

Gly Phe Ile Tyr Phe Met Ser Ile Xaa Glu Glu Pro Val Ala Asp Phe  
20 25 30

Val His Leu Tyr Cys Val Phe Tyr Phe Gln Gly Cys Ser Tyr Leu  
35 40 45

<210> 564  
<211> 128  
<212> PRT  
<213> Homo sapiens

<400> 564

Phe	Ser	Asn	Thr	Trp	Ser	Phe	Pro	Lys	Asp	Ala	Phe	Tyr	Thr	Asp	Phe
1				5					10					15	
Tyr	Leu	Lys	Ser	Ile	Val	Val	Arg	Glu	Tyr	Cys	Val	Phe	Cys	Ser	Asn
			20					25					30		
Pro	Leu	Lys	Tyr	Ile	Glu	Thr	Cys	Leu	Ile	Cys	Lys	Tyr	Arg	Phe	Ser
		35					40					45			
Tyr	Phe	Ser	Ile	Cys	Asp	Trp	Lys	Asn	Ile	Asn	Leu	Thr	Ile	Trp	Gly
	50					55					60				
Tyr	Ser	Ile	His	Thr	Ile	His	Thr	Asn	Ile	Tyr	Val	Phe	Ser	Val	Leu
65					70					75					80
Gln	Asn	Phe	Tyr	Ile	Phe	Pro	Gly	Ile	Cys	Leu	Leu	Ala	Ser	Leu	Ile
				85					90					95	
Thr	Glu	Arg	Cys	Thr	Ile	Leu	Ser	Cys	Thr	Phe	Phe	Cys	Cys	Ser	Leu
			100					105					110		
Ile	Phe	Leu	Ser	Tyr	Pro	Tyr	Gly	Asn	Cys	Ile	Lys	Cys	Ile	Pro	Ile
		115					120					125			

<210> 565  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

Met	Leu	Ile	Phe	Ser	Phe	Leu	Ser	Phe	Trp	Phe	Phe	Gln	Ser	Cys	Gln
1				5					10					15	
Gly	Phe	Ile	Tyr	Phe	Met	Ser	Ile	Phe	Glu	Glu	Pro	Val	Ala	Asp	Phe
			20					25					30		
Val	His	Leu	Tyr	Cys	Val	Phe	Tyr	Phe	Gln	Gly	Cys	Ser	Tyr	Leu	
		35					40					45			

<210> 566  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

Pro	Cys	Ser	Trp	Leu	Arg	Ala	Val	Thr	Leu	Cys	Gln	Asn	Leu	His	Trp
1				5					10					15	
Ala	Cys	Thr	Ser	Cys	His	Cys	Asn	Cys	Pro	Cys	Gln	Cys	Pro	Gln	Leu
			20					25					30		

Leu Phe

<210> 567  
<211> 193  
<212> PRT  
<213> Homo sapiens

<400> 567  
Met Cys Leu Leu Phe Leu Leu Pro Arg Phe Pro Val Ser Trp Arg Ala  
1 5 10 15  
Gly Val Asp Gly Ala Ala Pro Ser Ser Gln Asp Leu Trp Arg Ile Arg  
20 25 30  
Ser Pro Cys Gly Asp Cys Glu Gly Phe Asp Val His Ile Met Asp Asp  
35 40 45  
Met Ile Lys Arg Ala Leu Asp Phe Arg Glu Ser Arg Glu Ala Glu Pro  
50 55 60  
His Pro Leu Trp Glu Tyr Pro Cys Arg Ser Leu Ser Glu Pro Trp Gln  
65 70 75 80  
Ile Leu Thr Phe Asp Phe Gln Gln Pro Val Pro Leu Gln Pro Leu Cys  
85 90 95  
Ala Glu Gly Thr Val Glu Leu Arg Arg Pro Gly Gln Ser His Ala Ala  
100 105 110  
Val Leu Trp Met Glu Tyr His Leu Thr Pro Glu Cys Thr Leu Ser Thr  
115 120 125  
Gly Leu Leu Glu Pro Ala Asp Pro Glu Gly Gly Cys Cys Trp Asn Pro  
130 135 140  
His Cys Lys Gln Ala Val Tyr Phe Phe Ser Pro Ala Pro Asp Pro Arg  
145 150 155 160  
Ala Leu Leu Gly Gly Pro Arg Thr Val Ser Tyr Ala Val Glu Phe His  
165 170 175  
Pro Asp Thr Gly Asp Ile Ile Met Glu Phe Arg His Ala Asp Thr Pro  
180 185 190

Asp

<210> 568  
<211> 138  
<212> PRT  
<213> Homo sapiens

<400> 568

Met	Cys	Leu	Leu	Phe	Leu	Leu	Pro	Arg	Phe	Pro	Val	Ser	Trp	Arg	Ala	
1				5					10					15		
Gly	Val	Asp	Gly	Ala	Ala	Pro	Ser	Ser	Gln	Asp	Leu	Trp	Arg	Ile	Arg	
			20					25					30			
Ser	Pro	Cys	Gly	Asp	Cys	Glu	Gly	Phe	Asp	Val	His	Ile	Met	Asp	Asp	
		35					40					45				
Met	Ile	Lys	Val	Gly	Arg	Ala	Thr	Leu	Cys	Ile	Val	Pro	Pro	Thr	Cys	
	50					55					60					
Ser	Cys	Ile	Ala	Gly	Leu	Ser	Gln	Gly	Pro	Ser	Leu	Gly	Ser	Thr	Gly	
65					70					75					80	
Ser	Ser	Val	Gly	Gly	Ser	Glu	Val	Arg	Cys	Cys	His	Phe	Val	Trp	Phe	
				85					90					95		
Asn	Met	Ser	Ile	Ala	Trp	Tyr	Gln	Pro	Cys	Ser	Trp	Leu	Arg	Ala	Val	
		100						105					110			
Thr	Leu	Cys	Gln	Asn	Leu	His	Trp	Ala	Cys	Thr	Ser	Cys	His	Cys	Asn	
		115					120					125				
Cys	Pro	Cys	Gln	Cys	Pro	Gln	Leu	Leu	Phe							
	130					135										

<210> 569

<211> 48

<212> PRT

<213> Homo sapiens

<400> 569

Met	Arg	Gly	Asp	Ala	Pro	Pro	Ile	Asn	Leu	Gly	Cys	Leu	Pro	Phe	Phe	
1				5					10					15		
Leu	Cys	Leu	Phe	Phe	Phe	Cys	His	Leu	Lys	Tyr	Tyr	Leu	Ser	Leu	Leu	
			20					25					30			
Gly	Asn	Leu	Arg	Pro	Ile	Asp	Glu	Val	Tyr	Met	Cys	Leu	Ser	Asp	Ile	
		35					40					45				

<210> 570

<211> 17

<212> PRT

<213> Homo sapiens

<400> 570

Phe Leu Ser Leu Leu Phe Phe Phe Leu Ala Phe Ser Phe Phe Thr Glu  
1 5 10 15

Ala

<210> 571  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 571

Met Arg Gly Asp Ala Pro Pro Ile Asn Leu Gly Cys Leu Pro Phe Phe  
1 5 10 15

Leu Cys Leu Phe Phe Phe Cys His Leu Lys Tyr Tyr Leu Ser Leu Leu  
20 25 30

Gly Asn Leu Arg Pro Ile Asp Glu Val Tyr Met Cys Leu Ser Asp Ile  
35 40 45

<210> 572  
<211> 184  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 572

Val Arg Met Lys Tyr Leu Phe Phe Ser Trp Leu Val Val Phe Val Gly  
1 5 10 15

Ser Trp Ile Ile Tyr Val Gln Tyr Ser Thr Tyr Thr Glu Leu Cys Arg  
 20 25 30  
 Gly Lys Asp Cys Lys Lys Ile Ile Cys Asp Lys Tyr Lys Thr Gly Val  
 35 40 45  
 Ile Asp Gly Pro Ala Cys Asn Ser Leu Cys Val Thr Glu Thr Leu Tyr  
 50 55 60  
 Phe Gly Lys Cys Leu Ser Thr Lys Pro Asn Asn Gln Met Tyr Leu Gly  
 65 70 75 80  
 Ile Trp Asp Asn Leu Pro Gly Val Val Lys Cys Gln Met Glu Gln Ala  
 85 90 95  
 Leu His Leu Asp Phe Gly Thr Glu Leu Glu Pro Arg Lys Glu Ile Val  
 100 105 110  
 Leu Phe Asp Lys Pro Thr Arg Gly Thr Thr Val Gln Lys Phe Lys Glu  
 115 120 125  
 Met Val Tyr Ser Leu Phe Lys Ala Lys Leu Gly Asp Gln Gly Asn Leu  
 130 135 140  
 Ser Glu Leu Val Asn Leu Ile Leu Xaa Val Ala Asp Gly Asp Lys Asp  
 145 150 155 160  
 Gly Gln Val Ser Leu Gly Glu Ala Lys Ser Ala Trp Ala Leu Leu Gln  
 165 170 175  
 Leu Xaa Glu Phe Xaa Xaa His Gly  
 180

<210> 573  
 <211> 3  
 <212> PRT  
 <213> Homo sapiens

<400> 573  
 Tyr Thr Val  
 1

<210> 574  
 <211> 403  
 <212> PRT  
 <213> Homo sapiens

<400> 574  
 Met Lys Tyr Leu Phe Phe Ser Trp Leu Val Val Phe Val Gly Ser Trp  
 1 5 10 15

Ile Ile Tyr Val Gln Tyr Ser Thr Tyr Thr Glu Leu Cys Arg Gly Lys  
 20 25 30

Asp	Cys	Lys	Lys	Ile	Ile	Cys	Asp	Lys	Tyr	Lys	Thr	Gly	Val	Ile	Asp			
		35					40					45						
Gly	Pro	Ala	Cys	Asn	Ser	Leu	Cys	Val	Thr	Glu	Thr	Leu	Tyr	Phe	Gly			
		50				55					60							
Lys	Cys	Leu	Ser	Thr	Lys	Pro	Asn	Asn	Gln	Met	Tyr	Leu	Gly	Ile	Trp			
		65			70					75					80			
Asp	Asn	Leu	Pro	Gly	Val	Val	Lys	Cys	Gln	Met	Glu	Gln	Ala	Leu	His			
				85					90					95				
Leu	Asp	Phe	Gly	Thr	Glu	Leu	Glu	Pro	Arg	Lys	Glu	Ile	Val	Leu	Phe			
			100					105					110					
Asp	Lys	Pro	Thr	Arg	Gly	Thr	Thr	Val	Gln	Lys	Phe	Lys	Glu	Met	Val			
		115					120					125						
Tyr	Ser	Leu	Phe	Lys	Ala	Lys	Leu	Gly	Asp	Gln	Gly	Asn	Leu	Ser	Glu			
		130				135					140							
Leu	Val	Asn	Leu	Ile	Leu	Thr	Val	Ala	Asp	Gly	Asp	Lys	Asp	Gly	Gln			
		145			150				155						160			
Val	Ser	Leu	Gly	Glu	Ala	Lys	Ser	Ala	Trp	Ala	Leu	Leu	Gln	Leu	Asn			
			165					170						175				
Glu	Phe	Leu	Leu	Met	Val	Ile	Leu	Gln	Asp	Lys	Glu	His	Thr	Pro	Lys			
			180					185					190					
Leu	Met	Gly	Phe	Cys	Gly	Asp	Leu	Tyr	Val	Met	Glu	Ser	Val	Glu	Tyr			
		195				200						205						
Thr	Ser	Leu	Tyr	Gly	Ile	Ser	Leu	Pro	Trp	Val	Ile	Glu	Leu	Phe	Ile			
		210				215					220							
Pro	Ser	Gly	Phe	Arg	Arg	Ser	Met	Asp	Gln	Leu	Phe	Thr	Pro	Ser	Trp			
		225			230				235						240			
Pro	Arg	Lys	Ala	Lys	Ile	Ala	Ile	Gly	Leu	Leu	Glu	Phe	Val	Glu	Asp			
			245					250						255				
Val	Phe	His	Gly	Pro	Tyr	Gly	Asn	Phe	Leu	Met	Cys	Asp	Thr	Ser	Ala			
			260					265					270					
Lys	Asn	Leu	Gly	Tyr	Asn	Asp	Lys	Tyr	Asp	Leu	Lys	Met	Val	Asp	Met			
		275				280						285						
Arg	Lys	Ile	Val	Pro	Glu	Thr	Asn	Leu	Lys	Glu	Leu	Ile	Lys	Asp	Arg			
		290				295					300							
His	Cys	Glu	Ser	Asp	Leu	Asp	Cys	Val	Tyr	Gly	Thr	Asp	Cys	Arg	Thr			
		305			310					315					320			
Ser	Cys	Asp	Gln	Ser	Thr	Met	Lys	Cys	Thr	Ser	Glu	Val	Ile	Gln	Pro			
			325					330						335				

Asn Leu Ala Lys Ala Cys Gln Leu Leu Lys Asp Tyr Leu Leu Arg Gly  
 340 345 350  
 Ala Pro Ser Glu Ile Arg Glu Glu Leu Glu Lys Gln Leu Tyr Ser Cys  
 355 360 365  
 Ile Ala Leu Lys Val Thr Ala Asn Gln Met Glu Met Glu His Ser Leu  
 370 375 380  
 Ile Leu Asn Asn Leu Lys Thr Leu Leu Trp Lys Lys Ile Ser Tyr Thr  
 385 390 395 400  
 Asn Asp Ser

<210> 575  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 575  
 Met Ser Arg Phe Ser Gln Asn Phe Arg Gly Lys Glu Asp His Ile Val  
 1 5 10 15  
 Phe Leu Phe Cys Phe Asn Glu Ile Phe Phe Leu Leu Leu Met Leu Leu  
 20 25 30  
 Val Phe Pro Trp Leu Leu Ser Lys Ala Val Ser Gly Phe Ala Glu Arg  
 35 40 45  
 Leu Glu Met Thr Thr Ile Phe Arg Val Ser Arg Ser  
 50 55 60

<210> 576  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 576  
 Met Ser Arg Phe Ser Gln Asn Phe Arg Gly Lys Glu Asp His Ile Val  
 1 5 10 15  
 Phe Leu Phe Cys Phe Asn Glu Ile Phe Phe Leu Leu Leu Met Leu Leu  
 20 25 30  
 Val Phe Pro Trp Leu Leu Ser Lys Ala Val Ser Gly Phe Ala Glu Arg  
 35 40 45  
 Leu Glu Met Thr Thr Ile Phe Arg Val Ser Arg Ser  
 50 55 60



<210> 577  
<211> 127  
<212> PRT  
<213> Homo sapiens

<400> 577

Met	Gly	Gln	Val	Trp	Arg	Val	Pro	Pro	Leu	Leu	Leu	Ser	Val	Gln	Val
1				5					10					15	
Phe	Leu	Thr	Met	Ala	His	Ala	Phe	His	Gln	Ala	Pro	Glu	Leu	Gln	Trp
			20					25					30		
Leu	Gly	Leu	Trp	Phe	Trp	Val	Arg	Leu	Phe	Ala	Gly	Gly	Asp	Gly	Gly
		35					40					45			
Leu	His	Leu	Asn	Ile	Ser	Ser	Val	Thr	Leu	Pro	Leu	Leu	His	Gly	Lys
	50					55					60				
Gln	Leu	Ser	Arg	Glu	Val	Pro	Ser	Cys	Gln	Gly	Lys	Pro	Arg	Leu	Gly
65					70					75					80
Arg	Pro	Pro	Tyr	Lys	Glu	Pro	Gln	Asp	Cys	Ser	His	Gly	Cys	His	Leu
				85					90					95	
Ser	Trp	Lys	Gly	Arg	Phe	Met	Gly	Phe	Pro	Gly	Thr	Pro	Arg	Leu	Ser
			100					105					110		
Trp	Pro	Arg	Gly	Lys	Arg	Trp	Leu	Leu	Gln	Glu	Phe	Asp	Leu	Ser	
		115					120					125			

<210> 578  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 578

Leu	Gly	Lys	Pro	Trp	Arg	Tyr	Pro	Thr
1				5				

<210> 579  
<211> 127  
<212> PRT  
<213> Homo sapiens

<400> 579

Met	Gly	Gln	Val	Trp	Arg	Val	Pro	Pro	Leu	Leu	Leu	Ser	Val	Gln	Val
1				5					10					15	
Phe	Leu	Thr	Met	Ala	His	Ala	Phe	His	Gln	Ala	Pro	Glu	Leu	Gln	Trp
			20					25					30		
Leu	Gly	Leu	Trp	Phe	Trp	Val	Arg	Leu	Phe	Ala	Gly	Gly	Asp	Gly	Gly

35	40	45
Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys		
50	55	60
Gln Leu Ser Arg Glu Val Pro Ser Cys Gln Gly Lys Pro Arg Leu Gly		
65	70	75 80
Arg Pro Pro Tyr Lys Glu Pro Gln Asp Cys Ser His Gly Cys His Leu		
	85	90 95
Ser Trp Lys Gly Arg Phe Met Gly Phe Pro Gly Thr Pro Arg Leu Ser		
	100	105 110
Trp Pro Arg Gly Lys Arg Trp Leu Leu Gln Glu Phe Asp Leu Ser		
	115	120 125

<210> 580  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 580  
 Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala  
 1 5 10 15  
 Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser  
 20 25 30  
 Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr  
 35 40 45  
 His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln  
 50 55 60

<210> 581  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 581  
 Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala  
 1 5 10 15  
 Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser  
 20 25 30  
 Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr  
 35 40 45  
 His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln  
 50 55 60

<210> 582  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 582  
Met Lys Ser Ala Leu His Arg Asp Ile Cys Ile Leu Met Leu Thr Ala  
1 5 10 15  
Ala Leu Phe Thr Ile Ala Lys Thr Glu Lys Gln His Lys Cys Pro Ser  
20 25 30  
Ile Asp Glu Gln Ile Asn Asn Leu Gln Tyr Ile Cys Thr Met Glu Tyr  
35 40 45  
His Ser Ala Leu Gln Lys Glu Met Leu Leu Tyr Leu Gln  
50 55 60

<210> 583  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 583  
Met Leu Val Ser Met Cys Met Gly Leu Leu Phe Leu Gln Val Gly Lys  
1 5 10 15  
Gln Cys Ile Ala Phe Phe Tyr Thr Glu Ser Thr Arg Arg Pro Lys His  
20 25 30  
Leu Lys Thr Met Gly Ser Gly Tyr Ala  
35 40

<210> 584  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 584  
Met Leu Val Ser Met Cys Met Gly Leu Leu Phe Leu Gln Val Gly Lys  
1 5 10 15  
Gln Cys Ile Ala Phe Phe Tyr Thr Glu Ser Thr Arg Arg Pro Lys His  
20 25 30  
Leu Lys Thr Met Gly Ser Gly Tyr Ala  
35 40

<210> 585

<211> 241  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (58)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 585

Met	Phe	Lys	Leu	Arg	Gln	Met	Arg	Val	Glu	Lys	Phe	Ile	Tyr	Glu	Asn
1				5					10					15	
His	Pro	Asp	Val	Phe	Ser	Asp	Ser	Ser	Met	Asp	His	Phe	Gln	Lys	Phe
			20					25					30		
Leu	Pro	Thr	Val	Gly	Gly	Gln	Leu	Gly	Thr	Ala	Gly	Gln	Gly	Phe	Ser
			35				40					45			
Tyr	Ser	Lys	Ser	Asn	Gly	Arg	Gly	Gly	Xaa	Gln	Ala	Gly	Gly	Ser	Gly
	50					55					60				
Ser	Ala	Gly	Gln	Tyr	Gly	Ser	Asp	Gln	Gln	His	His	Leu	Gly	Ser	Gly
65					70					75					80
Ser	Gly	Ala	Gly	Gly	Thr	Gly	Gly	Pro	Ala	Gly	Gln	Ala	Gly	Arg	Gly
				85					90					95	
Gly	Ala	Ala	Gly	Thr	Ala	Gly	Val	Gly	Glu	Thr	Gly	Ser	Gly	Asp	Gln
			100					105					110		
Ala	Gly	Gly	Glu	Gly	Lys	His	Ile	Thr	Val	Phe	Lys	Thr	Tyr	Ile	Ser
		115					120					125			
Pro	Trp	Glu	Arg	Ala	Met	Gly	Val	Asp	Pro	Gln	Gln	Lys	Met	Glu	Leu
		130				135					140				
Gly	Ile	Asp	Leu	Leu	Ala	Tyr	Gly	Ala	Lys	Ala	Glu	Leu	Pro	Lys	Tyr
145					150				155						160
Lys	Ser	Phe	Asn	Arg	Thr	Ala	Met	Pro	Tyr	Gly	Gly	Tyr	Glu	Lys	Ala
			165						170					175	
Ser	Lys	Arg	Met	Thr	Phe	Gln	Met	Pro	Lys	Phe	Asp	Leu	Gly	Pro	Leu
			180					185					190		
Leu	Ser	Glu	Pro	Leu	Val	Leu	Tyr	Asn	Gln	Asn	Leu	Ser	Asn	Arg	Pro
		195					200					205			
Ser	Phe	Asn	Arg	Thr	Pro	Ile	Pro	Trp	Leu	Ser	Ser	Gly	Glu	Pro	Val
		210				215					220				
Asp	Tyr	Asn	Val	Asp	Ile	Gly	Ile	Pro	Leu	Asp	Gly	Glu	Thr	Glu	Glu
225					230					235					240

Leu

<210> 586  
<211> 241  
<212> PRT  
<213> Homo sapiens

<400> 586

Met	Phe	Lys	Leu	Arg	Gln	Met	Arg	Val	Glu	Lys	Phe	Ile	Tyr	Glu	Asn
1				5					10					15	
His	Pro	Asp	Val	Phe	Ser	Asp	Ser	Ser	Met	Asp	His	Phe	Gln	Lys	Phe
			20					25					30		
Leu	Pro	Thr	Val	Gly	Gly	Gln	Leu	Gly	Thr	Ala	Gly	Gln	Gly	Phe	Ser
		35					40					45			
Tyr	Ser	Lys	Ser	Asn	Gly	Arg	Gly	Gly	Ser	Gln	Ala	Gly	Gly	Ser	Gly
	50					55					60				
Ser	Ala	Gly	Gln	Tyr	Gly	Ser	Asp	Gln	Gln	His	His	Leu	Gly	Ser	Gly
65					70					75					80
Ser	Gly	Ala	Gly	Gly	Thr	Gly	Gly	Pro	Ala	Gly	Gln	Ala	Gly	Arg	Gly
				85					90					95	
Gly	Ala	Ala	Gly	Thr	Ala	Gly	Val	Gly	Glu	Thr	Gly	Ser	Gly	Asp	Gln
			100					105					110		
Ala	Gly	Gly	Glu	Gly	Lys	His	Ile	Thr	Val	Phe	Lys	Thr	Tyr	Ile	Ser
		115					120					125			
Pro	Trp	Glu	Arg	Ala	Met	Gly	Val	Asp	Pro	Gln	Gln	Lys	Met	Glu	Leu
	130					135					140				
Gly	Ile	Asp	Leu	Leu	Ala	Tyr	Gly	Ala	Lys	Ala	Glu	Leu	Pro	Lys	Tyr
145					150				155						160
Lys	Ser	Phe	Asn	Arg	Thr	Ala	Met	Pro	Tyr	Gly	Gly	Tyr	Glu	Lys	Ala
				165					170					175	
Ser	Lys	Arg	Met	Thr	Phe	Gln	Met	Pro	Lys	Phe	Asp	Leu	Gly	Pro	Leu
			180					185					190		
Leu	Ser	Glu	Pro	Leu	Val	Leu	Tyr	Asn	Gln	Asn	Leu	Ser	Asn	Arg	Pro
		195					200					205			
Ser	Phe	Asn	Arg	Thr	Pro	Ile	Pro	Trp	Leu	Ser	Ser	Gly	Glu	Pro	Val
	210					215					220				
Asp	Tyr	Asn	Val	Asp	Ile	Gly	Ile	Pro	Leu	Asp	Gly	Glu	Thr	Glu	Glu
225					230					235					240

Leu

<210> 587  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 587  
Arg Phe Pro Ile Ser Pro His Pro Tyr Gln His Ala Phe Leu Phe Phe  
1 5 10 15  
Phe

<210> 588  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 588  
Leu Arg Val Ala Val Gly Leu Cys Pro Arg Asp Ala Leu Leu Leu Ser  
1 5 10 15  
Pro Pro Arg Val Val Val Cys Gly Val Thr Asp Val Val Val Asp Lys  
20 25 30  
Gly Val Gly Leu Leu Val Val  
35

<210> 589  
<211> 23  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (5)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 589  
Met Arg Val Thr Xaa Ser Ser His Pro Cys Gln Arg Leu Val Leu Gln  
1 5 10 15  
Cys Ser Gly Phe Trp Leu Phe  
20

<210> 590  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 590

Met Arg Val Thr Val Ser Ser His Pro Cys Gln Arg Leu Val Leu Ser  
1 5 10 15

Val Phe Trp Leu Leu Ala Ile Leu Ile Gly Val  
20 25

<210> 591

<211> 55

<212> PRT

<213> Homo sapiens

<400> 591

Met Glu Ser Ser Thr Gly Lys Ala Ser Pro Arg Cys His Ile His Cys  
1 5 10 15

Val Pro Pro Phe Pro Pro Pro Cys Pro Val Lys Arg Val Gly Arg Leu  
20 25 30

Phe Leu Phe Phe Gln His Phe Pro Gln Gly Thr Val Ile Ile Pro Leu  
35 40 45

Met Pro Ser Pro Pro Leu Asp  
50 55

<210> 592

<211> 314

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 592

Tyr Ser Lys Thr His Ser Ile Lys Ser Ala Gln Pro Gly Val Pro Thr  
1 5 10 15

Ser Ala Arg Ser Pro Arg Gln Pro Ser Pro Gly Pro Thr Pro Pro Pro  
20 25 30

Phe Pro Gly Asn Arg Gly Thr Ala Leu Gly Gly Gly Ser Ile Arg Gln  
35 40 45

Ser Pro Leu Ser Ser Ser Ser Pro Phe Ser Asn Arg Pro Pro Leu Pro  
50 55 60

Pro Thr Pro Ser Arg Ala Leu Asp Asp Lys Pro Pro Pro Pro Pro Pro  
65 70 75 80

Pro Val Gly Asn Arg Pro Ser Ile His Arg Glu Ala Val Pro Pro Pro  
85 90 95

Pro Pro Gln Asn Asn Lys Pro Pro Val Pro Ser Thr Pro Arg Pro Ser  
 100 105 110  
 Ala Ala Ser Gln Ala Pro Pro Pro Pro Pro Pro Ser Arg Pro Gly  
 115 120 125  
 Xaa Pro Pro Leu Pro Pro Ser Ser Ser Gly Asn Asp Glu Thr Pro Arg  
 130 135 140  
 Leu Pro Gln Arg Asn Leu Ser Leu Ser Ser Thr Pro Pro Leu Pro  
 145 150 155 160  
 Ser Pro Gly Arg Ser Gly Pro Leu Pro Pro Pro Pro Ser Glu Arg Pro  
 165 170 175  
 Pro Pro Pro Val Arg Asp Pro Pro Gly Arg Ser Gly Pro Leu Pro Pro  
 180 185 190  
 Pro Pro Pro Val Ser Arg Asn Gly Ser Thr Ser Arg Ala Leu Pro Ala  
 195 200 205  
 Thr Pro Gln Leu Pro Ser Arg Ser Gly Val Asp Ser Pro Arg Ser Gly  
 210 215 220  
 Pro Arg Pro Pro Leu Pro Pro Asp Arg Pro Ser Ala Gly Ala Pro Pro  
 225 230 235 240  
 Pro Pro Pro Pro Ser Thr Ser Ile Arg Asn Gly Phe Gln Asp Ser Pro  
 245 250 255  
 Cys Glu Asp Glu Trp Glu Ser Arg Phe Tyr Phe His Pro Ile Ser Asp  
 260 265 270  
 Leu Pro Pro Pro Glu Pro Tyr Val Gln Thr Thr Lys Ser Tyr Pro Ser  
 275 280 285  
 Lys Leu Ala Arg Asn Glu Ser Arg Ser Gly Ser Asn Arg Arg Glu Arg  
 290 295 300  
 Gly Ala Pro Pro Leu Pro Pro Ile Pro Arg  
 305 310

<210> 593  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 593  
 Met Glu Ser Ser Thr Gly Lys Ala Ser Pro Arg Cys His Ile His Cys  
 1 5 10 15  
 Val Pro Pro Phe Pro Pro Pro Cys Pro Val Lys Arg Val Gly Arg Leu  
 20 25 30



Phe Leu Phe Phe Gln His Phe Pro Gln Gly Thr Val Ile Ile Pro Leu  
35 40 45

Met Pro Ser Pro Pro Leu Asp  
50 55

<210> 594  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 594  
Phe Ile Ile His Ser Ile Ser Pro Val Ala Leu Asn Pro Gln Ala His  
1 5 10 15

Asp Leu Pro Phe Ser Leu Xaa Ser Cys Val Ser Val Phe Asn Leu Arg  
20 25 30

Ser Phe Pro Thr Met Asp Ser Cys Thr Thr Leu Asn Glu Thr Ser Ile  
35 40 45

Phe Gln Arg Arg Val  
50

<210> 595  
<211> 261  
<212> PRT  
<213> Homo sapiens

<400> 595  
Gly Ile Phe Arg Ser Leu Arg Val Leu Phe Pro Leu Phe Ser Val Gly  
1 5 10 15

Arg Pro Gln Phe Ala Arg Ser Leu Ser Ala Ala Pro Gln Leu Ser Asp  
20 25 30

Thr Ala Asp Thr Met Gly Phe Gly Asp Leu Lys Ser Pro Ala Gly Leu  
35 40 45

Gln Val Leu Asn Asp Tyr Leu Ala Asp Lys Ser Tyr Ile Glu Gly Tyr  
50 55 60

Val Pro Ser Gln Ala Asp Val Ala Val Phe Glu Ala Val Ser Ser Pro  
65 70 75 80

Pro Pro Ala Asp Leu Cys His Ala Leu Arg Trp Tyr Asn His Ile Lys  
85 90 95

Ser Tyr Glu Lys Glu Lys Ala Ser Leu Pro Gly Val Lys Lys Ala Leu  
 100 105 110  
 Gly Lys Tyr Gly Pro Ala Asp Val Glu Asp Thr Thr Gly Ser Gly Ala  
 115 120 125  
 Thr Asp Ser Lys Asp Asp Asp Asp Ile Asp Leu Phe Gly Ser Asp Asp  
 130 135 140  
 Glu Glu Glu Ser Glu Glu Ala Lys Arg Leu Arg Glu Glu Arg Leu Ala  
 145 150 155 160  
 Gln Tyr Glu Ser Lys Lys Ala Lys Lys Pro Ala Leu Val Ala Lys Ser  
 165 170 175  
 Ser Ile Leu Leu Asp Val Lys Pro Trp Asp Asp Glu Thr Asp Met Ala  
 180 185 190  
 Lys Leu Glu Glu Cys Val Arg Ser Ile Gln Ala Asp Gly Leu Val Trp  
 195 200 205  
 Gly Ser Ser Lys Leu Val Pro Val Gly Tyr Gly Ile Lys Lys Leu Gln  
 210 215 220  
 Ile Gln Cys Val Val Glu Asp Asp Lys Val Gly Thr Asp Met Leu Glu  
 225 230 235 240  
 Glu Gln Ile Thr Ala Phe Glu Asp Tyr Val Gln Ser Met Asp Val Ala  
 245 250 255  
 Ala Phe Asn Lys Ile  
 260

<210> 596  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 596  
 Met Lys Lys Glu Met Val Leu Leu Thr Thr Thr Tyr Phe Ser Leu His  
 1 5 10 15  
 Val Lys Val Phe Phe Cys Leu Phe Val Cys Phe Ser Ile Leu Ser Ser  
 20 25 30  
 Ser Arg Arg Gly Ser Leu Ala Asn Asn Ser Ser Trp  
 35 40

<210> 597  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 597

Met Lys Lys Glu Met Val Leu Leu Thr Thr Thr Tyr Phe Ser Leu His  
1 5 10 15

Val Lys Val Phe Phe Cys Leu Phe Val Cys Phe Ser Ile Leu Ser Ser  
20 25 30

Ser Arg Arg Gly Ser Leu Ala Asn Asn Ser Ser Trp  
35 40

<210> 598

<211> 42

<212> PRT

<213> Homo sapiens

<400> 598

Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln  
1 5 10 15

Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu  
20 25 30

Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys  
35 40

<210> 599

<211> 6

<212> PRT

<213> Homo sapiens

<400> 599

Leu Leu Leu Ser Ser Phe  
1 5

<210> 600

<211> 42

<212> PRT

<213> Homo sapiens

<400> 600

Met Phe Thr Leu Leu Leu Ser Ser Phe Phe Leu Gln His Cys Leu Gln  
1 5 10 15

Asn Asn Leu Tyr Ala Ser Glu Arg Glu Gln Ile Phe Ser Asn Phe Leu  
20 25 30

Gln Leu Ser Ser Leu Lys Arg Arg Ile Cys  
35 40

<210> 601  
<211> 86  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 601  
Leu Gly Ser Pro Glu Xaa Ala Gln Lys Val Asp Ile Thr Ser Ala His  
1 5 10 15  
Phe Ile Gly Gln Xaa Ser Arg Pro Ser Asp Phe Ala Gln Val Xaa Ser  
20 25 30  
Leu Glu Gly Ser Arg Pro Val Ile Trp Ser Leu Asn Gly Trp Thr Leu  
35 40 45  
Lys Glu Thr Pro Arg Ala Asp Gly Val Phe Thr Glu Thr Ala Gly Gln  
50 55 60  
Gly Leu Gly Thr Ala Gln Gly His Leu Leu Trp Xaa Ala Ala Ala Thr  
65 70 75 80  
Gly Ser Pro Asp Cys Ser  
85

<210> 602  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 602  
Met Gly Val Ala Leu Pro Ser Pro Leu Leu Cys Ser Leu Pro Leu Phe  
1 5 10 15  
Leu Leu Phe Gly Asp Val Ser Gly Ser Ser Ser Leu Leu Ala Leu Leu  
20 25 30

Pro Phe Leu His Pro Trp His His Pro Ser Leu Ser  
35 40

<210> 603  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 603  
Met Gly Val Ala Leu Pro Ser Pro Leu Leu Cys Ser Leu Pro Leu Phe  
1 5 10 15  
Leu Leu Phe Gly Asp Val Ser Gly Ser Ser Ser Leu Leu Ala Leu Leu  
20 25 30

Pro Phe Leu His Pro Trp His His Pro Ser Leu Ser  
35 40

<210> 604  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 604  
Met Leu Ser Ala Val Leu Thr Met Leu Arg Phe Ile Ile Ala Phe Ser  
1 5 10 15  
Leu Leu Phe Cys Ser Cys Ser Thr Asp Lys His Cys Thr Trp Tyr His  
20 25 30  
Ala Leu Pro His Phe Lys Lys Ile Cys Leu Thr Glu Arg Lys Lys Met  
35 40 45  
Trp Phe Gly Leu Ala Ala Val Leu Ile Tyr Gly Ile  
50 55 60

<210> 605  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 605  
Ile Thr Phe Ser Cys Phe Phe Cys Asn Asn Cys Ser Gln Val Asn Leu  
1 5 10 15

Gln

<210> 606  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 606  
Met Leu Ser Ala Val Leu Thr Met Leu Arg Phe Ile Ile Ala Phe Ser  
1 5 10 15  
Leu Leu Phe Cys Ser Cys Ser Thr Asp Lys His Cys Thr Trp Tyr His  
20 25 30  
Ala Leu Pro His Phe Lys Lys Ile Cys Leu Thr Glu Arg Lys Lys Met  
35 40 45  
Trp Phe Gly Leu Ala Ala Val Leu Ile Tyr Gly Ile  
50 55 60

<210> 607  
<211> 97  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 607  
Leu Gly Ala Glu His Phe Lys Cys Ile Thr Trp Val Ala Gly Trp Ala  
1 5 10 15  
Val Pro Gly Leu Lys Gly Val Gly Ser Phe Phe Gln Gly Ala Pro Ser  
20 25 30  
Ala Ser Trp His Arg Thr Leu Ala Pro Ala His Pro Lys Leu Thr Leu  
35 40 45  
Val Gly Val Gly Pro Leu Thr Gln Thr Trp Pro Leu Pro Ser Leu Val  
50 55 60  
Leu Leu Pro Gln Leu Ser Pro Val Cys Gly Arg Val Cys Leu Asp Arg  
65 70 75 80  
Leu Trp Ala Gly Gln Gly Xaa Gly Gln Ala Glu Xaa Glu Phe Val Leu  
85 90 95

Gly

<210> 608  
<211> 318  
<212> PRT  
<213> Homo sapiens

<400> 608

Met	Arg	Leu	Leu	Ala	Gly	Trp	Leu	Cys	Leu	Ser	Leu	Ala	Ser	Val	Trp
1				5				10						15	
Leu	Ala	Arg	Arg	Met	Trp	Thr	Leu	Arg	Ser	Pro	Leu	Thr	Arg	Ser	Leu
			20					25					30		
Tyr	Val	Asn	Met	Thr	Ser	Gly	Pro	Gly	Gly	Pro	Ala	Ala	Ala	Ala	Gly
		35					40					45			
Gly	Arg	Lys	Glu	Asn	His	Gln	Trp	Tyr	Val	Cys	Asn	Arg	Glu	Lys	Leu
	50					55					60				
Cys	Glu	Ser	Leu	Gln	Ala	Val	Phe	Val	Gln	Ser	Tyr	Leu	Asp	Gln	Gly
65					70					75					80
Thr	Gln	Ile	Phe	Leu	Asn	Asn	Ser	Ile	Glu	Lys	Ser	Gly	Trp	Leu	Phe
				85					90					95	
Ile	Gln	Leu	Tyr	His	Ser	Phe	Val	Ser	Ser	Val	Phe	Ser	Leu	Phe	Met
		100						105					110		
Ser	Arg	Thr	Ser	Ile	Asn	Gly	Leu	Leu	Gly	Arg	Gly	Ser	Met	Phe	Val
		115					120					125			
Phe	Ser	Pro	Asp	Gln	Phe	Gln	Arg	Leu	Leu	Lys	Ile	Asn	Pro	Asp	Trp
	130					135					140				
Lys	Thr	His	Arg	Leu	Leu	Asp	Leu	Gly	Ala	Gly	Asp	Gly	Glu	Val	Thr
145					150					155					160
Lys	Ile	Met	Ser	Pro	His	Phe	Glu	Glu	Ile	Tyr	Ala	Thr	Glu	Leu	Ser
				165					170					175	
Glu	Thr	Met	Ile	Trp	Gln	Leu	Gln	Lys	Lys	Lys	Tyr	Arg	Val	Leu	Gly
		180						185					190		
Ile	Asn	Glu	Trp	Gln	Asn	Thr	Gly	Phe	Gln	Tyr	Asp	Val	Ile	Ser	Cys
		195					200					205			
Leu	Asn	Leu	Leu	Asp	Arg	Cys	Asp	Gln	Pro	Leu	Thr	Leu	Leu	Lys	Asp
	210					215					220				
Ile	Arg	Ser	Val	Leu	Glu	Pro	Thr	Arg	Gly	Arg	Val	Ile	Leu	Ala	Leu
225					230					235					240
Val	Leu	Pro	Phe	His	Pro	Tyr	Val	Glu	Asn	Val	Gly	Gly	Lys	Trp	Glu
				245					250					255	
Lys	Pro	Ser	Glu	Ile	Leu	Glu	Ile	Lys	Gly	Gln	Asn	Trp	Glu	Glu	Gln

260	265	270
Val Asn Ser Leu Pro Glu Val Phe Arg Lys Ala Gly Phe Val Ile Glu		
275	280	285
Ala Phe Thr Arg Leu Pro Tyr Leu Cys Glu Gly Asp Met Tyr Asn Asp		
290	295	300
Tyr Tyr Val Leu Asp Asp Ala Val Phe Val Leu Lys Pro Val		
305	310	315

<210> 609  
 <211> 318  
 <212> PRT  
 <213> Homo sapiens

<400> 609
Met Arg Leu Leu Ala Gly Trp Leu Cys Leu Ser Leu Ala Ser Val Trp
1 5 10 15
Leu Ala Arg Arg Met Trp Thr Leu Arg Ser Pro Leu Thr Arg Ser Leu
20 25 30
Tyr Val Asn Met Thr Ser Gly Pro Gly Gly Pro Ala Ala Ala Ala Gly
35 40 45
Gly Arg Lys Glu Asn His Gln Trp Tyr Val Cys Asn Arg Glu Lys Leu
50 55 60
Cys Glu Ser Leu Gln Ala Val Phe Val Gln Ser Tyr Leu Asp Gln Gly
65 70 75 80
Thr Gln Ile Phe Leu Asn Asn Ser Ile Glu Lys Ser Gly Trp Leu Phe
85 90 95
Ile Gln Leu Tyr His Ser Phe Val Ser Ser Val Phe Ser Leu Phe Met
100 105 110
Ser Arg Thr Ser Ile Asn Gly Leu Leu Gly Arg Gly Ser Met Phe Val
115 120 125
Phe Ser Pro Asp Gln Phe Gln Arg Leu Leu Lys Ile Asn Pro Asp Trp
130 135 140
Lys Thr His Arg Leu Leu Asp Leu Gly Ala Gly Asp Gly Glu Val Thr
145 150 155 160
Lys Ile Met Ser Pro His Phe Glu Glu Ile Tyr Ala Thr Glu Leu Ser
165 170 175
Glu Thr Met Ile Trp Gln Leu Gln Lys Lys Lys Tyr Arg Val Leu Gly
180 185 190
Ile Asn Glu Trp Gln Asn Thr Gly Phe Gln Tyr Asp Val Ile Ser Cys
195 200 205



Leu Asn Leu Leu Asp Arg Cys Asp Gln Pro Leu Thr Leu Leu Lys Asp  
 210 215 220  
 Ile Arg Ser Val Leu Glu Pro Thr Arg Gly Arg Val Ile Leu Ala Leu  
 225 230 235 240  
 Val Leu Pro Phe His Pro Tyr Val Glu Asn Val Gly Gly Lys Trp Glu  
 245 250 255  
 Lys Pro Ser Glu Ile Leu Glu Ile Lys Gly Gln Asn Trp Glu Glu Gln  
 260 265 270  
 Val Asn Ser Leu Pro Glu Val Phe Arg Lys Ala Gly Phe Val Ile Glu  
 275 280 285  
 Ala Phe Thr Arg Leu Pro Tyr Leu Cys Glu Gly Asp Met Tyr Asn Ala  
 290 295 300  
 Tyr Tyr Val Leu Asp Asp Ala Val Phe Val Leu Lys Pro Val  
 305 310 315

<210> 610  
 <211> 195  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (159)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (175)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 610  
 Met Trp Thr Leu Phe Ala Leu Ser Gly Pro Leu Phe Leu Phe Gln Val  
 1 5 10 15  
 Leu Thr Phe Met Ile Tyr Ile Val Ser Thr Val Phe Cys Gly His Leu  
 20 25 30  
 Gly Lys Val Glu Leu Ala Ser Val Thr Leu Ala Val Ala Phe Val Asn  
 35 40 45  
 Val Cys Gly Val Ser Val Gly Val Gly Leu Ser Ser Ala Cys Asp Thr  
 50 55 60  
 Leu Met Ser Gln Ser Phe Gly Ser Pro Asn Lys Lys His Val Gly Val  
 65 70 75 80  
 Ile Leu Gln Arg Gly Ala Leu Val Leu Leu Leu Cys Cys Leu Pro Cys  
 85 90 95

Trp Ala Leu Phe Leu Asn Thr Gln His Ile Leu Leu Leu Phe Arg Gln  
 100 105 110  
 Asp Pro Asp Val Ser Arg Leu Thr Gln Asp Tyr Val Met Ile Phe Ile  
 115 120 125  
 Pro Gly Leu Pro Val Ile Phe Leu Tyr Asn Leu Leu Ala Lys Tyr Leu  
 130 135 140  
 Gln Asn Gln Val Gln Val Phe Ser Val Trp Gly Gly Pro Ser Xaa Ser  
 145 150 155 160  
 Thr Leu Pro Tyr Ser Ser Gly Arg Gly Ala Trp Gly Phe Pro Xaa Leu  
 165 170 175  
 Ser Thr Ile Cys Glu Pro Ala Leu Glu Arg Gly Ser Leu Pro Thr His  
 180 185 190  
 Leu Pro Tyr  
 195

<210> 611  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 611  
 Leu Ala Gly Pro Val Phe Ile Tyr Phe Arg Arg Ser Pro Gly Pro Lys  
 1 5 10 15  
 Ser Ser Val Val Trp Trp Ala Thr Val Ser Thr Val Trp Pro Thr Met  
 20 25 30  
 Pro Trp Phe Leu Cys  
 35

<210> 612  
 <211> 3  
 <212> PRT  
 <213> Homo sapiens

<400> 612  
 Ile Pro Gly  
 1

<210> 613  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 613

Met	Trp	Thr	Leu	Phe	Ala	Leu	Ser	Gly	Pro	Leu	Phe	Leu	Phe	Gln	Val
1				5				10						15	
Leu	Thr	Phe	Met	Ile	Tyr	Ile	Val	Ser	Thr	Val	Phe	Cys	Gly	His	Leu
			20					25					30		
Gly	Lys	Val	Glu	Leu	Ala	Ser	Val	Thr	Leu	Ala	Val	Ala	Phe	Val	Asn
		35					40					45			
Val	Cys	Gly	Val	Ser	Val	Gly	Val	Gly	Leu	Ser	Ser	Ala	Cys	Asp	Thr
	50					55					60				
Leu	Met	Ser	Gln	Ser	Phe	Gly	Ser	Pro	Asn	Lys	Lys	His	Val	Gly	Val
65					70					75					80
Ile	Leu	Gln	Arg	Gly	Ala	Leu	Val	Leu	Leu	Leu	Cys	Cys	Leu	Pro	Cys
				85				90						95	
Trp	Ala	Leu	Phe	Leu	Asn	Thr	Gln	His	Ile	Leu	Leu	Leu	Phe	Arg	Gln
			100					105					110		
Asp	Pro	Asp	Val	Ser	Arg	Leu	Thr	Gln	Asp	Tyr	Val	Met	Ile	Phe	Ile
		115					120					125			
Pro	Gly	Leu	Pro	Val	Ile	Phe	Leu	Tyr	Asn	Leu	Leu	Ala	Lys	Tyr	Leu
	130					135					140				
Gln	Asn	Gln	Val	Gln	Val	Phe	Glu	Cys	Val	Gly	Arg	Pro	Phe	Ser	Gln
145					150					155					160
His	Thr	Ala	Leu	Phe	Gln	Trp	Glu	Gly	Gly	Leu	Gly	Leu	Ser	Pro	Ser
			165					170						175	
Leu	His	His	Leu												
			180												

<210> 614

<211> 38

<212> PRT

<213> Homo sapiens

<400> 614

Glu	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Arg	Pro	Gly	Ala	Val	Ala	His	Ala
1				5					10					15	
Leu	Ile	Pro	Ala	Leu	Trp	Glu	Thr	Glu	Ala	Gly	Gly	Ser	Pro	Glu	Val
			20					25					30		
Gly	Ser	Ser	Arg	Pro	Ala										
			35												

<210> 615

<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 615

Met Val Arg Thr Leu Ser Leu Ala Val Leu Ser Trp Leu Pro Ala Ala  
1 5 10 15

Val Cys

<210> 616  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 616

Met Val Arg Thr Leu Ser Leu Ala Val Leu Ser Trp Leu Pro Ala Ala  
1 5 10 15

Val Cys

<210> 617  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 617

Met Leu Leu Ser Trp Thr Val Leu Ile Ile Ile Leu Pro Phe Ala Gly  
1 5 10 15

Asp Val Ser Ser His Leu Cys Ile Leu Arg Pro Phe Ala Gly Ser Val  
20 25 30

Ser Ser Cys Leu Ser Asn Phe Lys Arg Ile  
35 40

<210> 618  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 618

Met Leu Leu Ser Trp Thr Val Leu Ile Ile Ile Leu Pro Phe Ala Gly  
1 5 10 15

Asp Val Ser Ser His Leu Cys Ile Leu Arg Pro Phe Ala Gly Ser Val  
20 25 30

Ser Ser Cys Leu Ser Asn Phe Lys Arg Ile

<210> 619  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 619  
 Ser Ala Ser Cys Trp Asn Ala Asn Phe Leu Pro Arg Asn Gln Gly Arg  
   1                  5                  10                  15  
 Lys Leu His Cys Cys Ala Lys Lys Lys Lys Lys Pro Ser Leu His Thr  
                   20                  25                  30  
 Leu Lys Pro Phe Leu Asn Pro Ser Arg Glu Ser Thr Val Ala Ser Ser  
                   35                  40                  45  
 Thr Thr Ala Ile Gly Phe Ala Ser Val Met Cys Ser Tyr Leu Leu Asp  
   50                  55                  60  
 Phe Gln Asn Ile Lys Lys Lys Lys Arg Ala Ala Ala Leu Glu Asp Pro  
   65                  70                  75                  80  
 Ser Leu Arg Thr Arg Ala Cys Asp Asn Ile Ala Arg Arg  
                   85                  90

<210> 620  
 <211> 403  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (175)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (320)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (331)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (368)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 620  
 Met Ala Thr Ala Glu Arg Arg Ala Leu Gly Ile Gly Phe Gln Trp Leu

1	5	10	15
Ser	Leu	Ala	Thr
	20		
Glu	Asp	Gly	Gly
	35		
Leu	Asp	Lys	Ser
	50		
Phe	Val	Glu	Gln
	65		
Ser	Phe	Ile	Val
	85		
Glu	Asp	Arg	Glu
	100		
Leu	Pro	Gly	Gly
	115		
Glu	Gln	Ile	Tyr
	130		
Ile	Ile	Ala	Leu
	145		
Ser	Glu	Arg	Glu
	165		
Cys	Val	Gly	Val
	180		
Asp	Ser	Lys	Asp
	195		
Gln	Gly	Ile	Ile
	210		
Ala	Ala	Glu	Pro
	225		
Val	Arg	Gly	Asn
	245		
Cys	Ser	Phe	Lys
	260		
Ser	Val	Glu	Asp
	275		
Val	Gly	Met	Lys
	290		
Phe	Ile	Ser	Ser

305		310		315		320
Ser	Ile	Leu	Ala	Ile	Ala	Leu
		325				330
						335
Ala	Leu	Leu	Trp	Trp	Phe	Trp
		340				345
						350
Glu	Val	Pro	Pro	Pro	Pro	Ala
		355				360
						365
Arg	Met	Ala	Val	Gly	Gly	Gln
		370				375
						380
Trp	Ala	Ala	Gly	His	Leu	Ala
		385			390	
						395
						400
Gln	Arg	Ile				

<210> 621  
 <211> 403  
 <212> PRT  
 <213> Homo sapiens

<400> 621

Met	Ala	Thr	Ala	Glu	Arg	Arg	Ala	Leu	Gly	Ile	Gly	Phe	Gln	Trp	Leu
1				5					10					15	
Ser	Leu	Ala	Thr	Leu	Val	Leu	Ile	Cys	Ala	Gly	Gln	Gly	Gly	Arg	Arg
			20					25					30		
Glu	Asp	Gly	Gly	Pro	Ala	Cys	Tyr	Gly	Gly	Phe	Asp	Leu	Tyr	Phe	Ile
		35					40					45			
Leu	Asp	Lys	Ser	Gly	Ser	Val	Leu	His	His	Trp	Asn	Glu	Ile	Tyr	Tyr
		50				55					60				
Phe	Val	Glu	Gln	Leu	Ala	His	Lys	Phe	Ile	Ser	Pro	Gln	Leu	Arg	Met
	65				70					75					80
Ser	Phe	Ile	Val	Phe	Ser	Thr	Arg	Gly	Thr	Thr	Leu	Met	Lys	Leu	Thr
				85					90					95	
Glu	Asp	Arg	Glu	Gln	Ile	Arg	Gln	Gly	Leu	Glu	Glu	Leu	Gln	Lys	Val
			100					105					110		
Leu	Pro	Gly	Gly	Asp	Thr	Tyr	Met	His	Glu	Gly	Phe	Glu	Arg	Ala	Ser
		115					120					125			
Glu	Gln	Ile	Tyr	Tyr	Glu	Asn	Arg	Gln	Gly	Tyr	Arg	Thr	Ala	Ser	Val
		130				135					140				
Ile	Ile	Ala	Leu	Thr	Asp	Gly	Glu	Leu	His	Glu	Asp	Leu	Phe	Phe	Tyr
					145		150			155					160

Ser	Glu	Arg	Glu	Ala	Asn	Arg	Ser	Arg	Asp	Leu	Gly	Ala	Ile	Val	Tyr
				165					170					175	
Cys	Val	Gly	Val	Lys	Asp	Phe	Asn	Glu	Thr	Gln	Leu	Ala	Arg	Ile	Ala
			180					185					190		
Asp	Ser	Lys	Asp	His	Val	Phe	Pro	Val	Asn	Asp	Gly	Phe	Gln	Ala	Leu
		195					200					205			
Gln	Gly	Ile	Ile	His	Ser	Ile	Leu	Lys	Lys	Ser	Cys	Ile	Glu	Ile	Leu
	210					215					220				
Ala	Ala	Glu	Pro	Ser	Thr	Ile	Cys	Ala	Gly	Glu	Ser	Phe	Gln	Val	Val
225					230					235					240
Val	Arg	Gly	Asn	Gly	Phe	Arg	His	Ala	Arg	Asn	Val	Asp	Arg	Val	Leu
				245					250					255	
Cys	Ser	Phe	Lys	Ile	Asn	Asp	Ser	Val	Thr	Leu	Asn	Glu	Lys	Pro	Phe
			260					265					270		
Ser	Val	Glu	Asp	Thr	Tyr	Leu	Leu	Cys	Pro	Ala	Pro	Ile	Leu	Lys	Glu
		275					280					285			
Val	Gly	Met	Lys	Ala	Ala	Leu	Gln	Val	Ser	Met	Asn	Asp	Gly	Leu	Ser
	290					295					300				
Phe	Ile	Ser	Ser	Ser	Val	Ile	Ile	Thr	Thr	Thr	His	Cys	Ser	Asp	Gly
305					310					315					320
Ser	Ile	Leu	Ala	Ile	Ala	Leu	Leu	Ile	Leu	Phe	Leu	Leu	Leu	Ala	Leu
				325					330					335	
Ala	Leu	Leu	Trp	Trp	Phe	Trp	Pro	Leu	Cys	Cys	Thr	Val	Ile	Ile	Lys
			340					345					350		
Glu	Val	Pro	Pro	Pro	Pro	Ala	Glu	Glu	Ser	Glu	Val	Ser	Asp	His	Ser
		355					360					365			
Arg	Met	Ala	Val	Gly	Gly	Gln	Gly	Gly	Arg	Val	Gly	Trp	Arg	Ala	Gly
	370					375					380				
Trp	Ala	Ala	Gly	His	Leu	Ala	Pro	Cys	Arg	Ala	Glu	Leu	Ser	Gln	Ala
385					390					395					400
Gln	Arg	Ile													

<210> 622  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>



<221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 622  
 Val Val Lys Ile Thr His Cys Pro Thr Leu Leu Thr Arg Asp Gly Asp  
   1                  5                  10                  15  
 Arg Ile Arg Ser Asn Gly Lys Phe Gly Gly Leu Gln Asn Lys Ala Pro  
           20                  25                  30  
 Pro Met Asp Lys Leu Arg Gly Met Val Phe Gly Ala Pro Val Pro Lys  
           35                  40                  45  
 Gln Cys Leu Ile Leu Gly Glu Gln Ile Asp Leu Leu Gln Gln Tyr Arg  
   50                  55                  60  
 Ser Ala Val Cys Lys Leu Asp Ser Val Asn Lys Asp Leu Asn Ser Gln  
   65                  70                  75                  80  
 Leu Glu Tyr Leu Arg Thr Pro Asp Met Arg Lys Lys Lys Gln Glu Leu  
           85                  90                  95  
 Asp Glu His Glu Lys Xaa Leu Lys Leu Ile Glu Glu Lys Leu Gly Met  
           100                  105                  110  
 Thr Pro Ile Arg Lys Cys Asn Asp Ser Leu Arg His Ser Pro Lys Val  
           115                  120                  125  
 Glu Thr Thr Asp Cys Pro Val Pro Pro Lys Arg Met Arg Arg Glu Ala  
   130                  135                  140  
 Thr Arg Gln Asn Arg Ile Ile Thr Lys Thr Asp Val  
 145                  150                  155

<210> 623  
 <211> 175  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (173)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (174)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 623

Val Phe Gly Met Leu Leu Gly Asp Thr Ile Ile Leu Asp Asn Leu Asp  
1 5 10 15

Ala Ala Asn His Tyr Arg Lys Glu Val Val Lys Ile Thr His Cys Pro  
20 25 30

Thr Leu Leu Thr Arg Asp Gly Asp Arg Ile Arg Ser Asn Gly Lys Phe  
35 40 45

Gly Gly Leu Gln Asn Lys Ala Pro Pro Met Asp Lys Leu Arg Gly Met  
50 55 60

Val Phe Gly Ala Pro Val Pro Lys Gln Cys Leu Ile Leu Gly Glu Gln  
65 70 75 80

Ile Asp Leu Leu Gln Gln Tyr Arg Ser Ala Xaa Cys Lys Leu Asp Ser  
85 90 95

Val Asn Lys Asp Leu Asn Ser Gln Leu Glu Tyr Leu Arg Thr Pro Asp  
100 105 110

Met Arg Lys Lys Lys Gln Glu Leu Asp Glu His Glu Lys Asn Leu Lys  
115 120 125

Leu Ile Glu Glu Lys Leu Gly Met Thr Pro Ile Arg Lys Cys Asn Asp  
130 135 140

Ser Leu Arg His Ser Pro Lys Val Glu Thr Thr Asp Cys Pro Val Pro  
145 150 155 160

Pro Lys Arg Met Arg Arg Glu Ala Gly Asp Lys Arg Xaa Xaa Xaa  
165 170 175

<210> 624

<211> 24

<212> PRT

<213> Homo sapiens

<400> 624

Met Trp His Leu Trp Arg Arg Leu Leu Ser Cys Phe Pro Val Ala Met  
1 5 10 15

Leu Gln Asp Tyr Lys Tyr Ser Val  
20

<210> 625

<211> 20

<212> PRT  
<213> Homo sapiens

<400> 625  
Ser Cys Leu Pro Val Gly Thr Asp Pro Gln Gln Met Gln Lys His Leu  
1 5 10 15  
Val Val Ile Lys  
20

<210> 626  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 626  
Met Trp His Leu Trp Arg Arg Leu Leu Ser Cys Phe Pro Val Ala Met  
1 5 10 15  
Leu Gln Asp Tyr Lys Tyr Ser Val  
20

<210> 627  
<211> 439  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (358)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 627  
Met Val Pro Ser Ser Pro Arg Ala Leu Phe Leu Leu Leu Leu Ile Leu  
1 5 10 15  
Ala Cys Pro Glu Pro Arg Ala Ser Gln Asn Cys Leu Ser Lys Gln Gln  
20 25 30  
Leu Leu Ser Ala Ile Arg Gln Leu Gln Gln Leu Leu Lys Gly Gln Glu  
35 40 45  
Thr Arg Phe Ala Glu Gly Ile Arg His Met Lys Ser Arg Leu Ala Ala  
50 55 60  
Leu Gln Asn Ser Val Gly Arg Val Gly Pro Asp Ala Leu Pro Val Ser  
65 70 75 80  
Cys Pro Ala Leu Asn Thr Pro Ala Asp Gly Arg Lys Phe Gly Ser Lys  
85 90 95  
Tyr Leu Val Asp His Glu Val His Phe Thr Cys Asn Pro Gly Phe Arg  
100 105 110

Leu	Val	Gly	Pro	Ser	Ser	Val	Val	Cys	Leu	Pro	Asn	Gly	Thr	Trp	Thr		
		115					120					125					
Gly	Glu	Gln	Pro	His	Cys	Arg	Gly	Ile	Ser	Glu	Cys	Ser	Ser	Gln	Pro		
	130					135					140						
Cys	Gln	Asn	Gly	Gly	Thr	Cys	Val	Glu	Gly	Val	Asn	Gln	Tyr	Arg	Cys		
145					150					155					160		
Ile	Cys	Pro	Pro	Gly	Arg	Thr	Gly	Asn	Arg	Cys	Gln	His	Gln	Ala	Gln		
				165					170					175			
Thr	Ala	Ala	Pro	Glu	Gly	Ser	Val	Ala	Gly	Asp	Ser	Ala	Phe	Ser	Arg		
			180					185					190				
Ala	Pro	Arg	Cys	Ala	Gln	Val	Glu	Arg	Ala	Gln	His	Cys	Ser	Cys	Glu		
		195					200					205					
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Met	His	Ala	Cys	Val	Asn	Thr	Pro	Gly	Ser	Tyr	Arg	Cys	Thr	Cys	Pro		
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Glu	Cys	Val	Gly	Leu	Gln	Pro	Val	Cys	Pro	Gln	Gly	Thr	Thr	Cys	Ile		
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Phe Val Ser Pro Tyr Asp Phe  
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Thr Arg Phe Ala Glu Gly Ile Arg His Met Lys Ser Arg Leu Ala Ala  
50 55 60  
Leu Gln Asn Ser Val Gly Arg Val Gly Pro Asp Ala Leu Pro Val Ser  
65 70 75 80  
Cys Pro Ala Leu Asn Thr Pro Ala Asp Gly Arg Lys Phe Gly Ser Lys  
85 90 95  
Tyr Leu Val Asp His Glu Val His Phe Thr Cys Asn Pro Gly Phe Arg  
100 105 110  
Leu Val Gly Pro Ser Ser Val Val Cys Leu Pro Asn Gly Thr Trp Thr  
115 120 125  
Gly Glu Gln Pro His Cys Arg Gly Ile Ser Glu Cys Ser Ser Gln Pro  
130 135 140  
Cys Gln Asn Gly Gly Thr Cys Val Glu Gly Val Asn Gln Tyr Arg Cys  
145 150 155 160  
Ile Cys Pro Pro Gly Arg Thr Gly Asn Arg Cys Gln His Gln Ala Gln  
165 170 175  
Thr Ala Ala Pro Glu Gly Ser Val Ala Gly Asp Ser Ala Phe Ser Arg  
180 185 190  
Ala Pro Arg Cys Ala Gln Val Glu Arg Ala Gln His Cys Ser Cys Glu  
195 200 205  
Ala Gly Phe His Leu Ser Gly Ala Ala Gly Asp Ser Val Cys Gln Asp  
210 215 220

